# Review of Global Wood Markets and China's Growing Impact on N.A. Industry Maritime Lumber Bureau Halifax, June 16, 2011

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# Introduction to: International WOOD MARKETS Group

- We are <u>wood product industry consultants</u> and we assist companies around the world to develop operational, marketing & business strategies.
- We are known as <u>global market & industry</u> <u>experts/analysts</u> on timber, lumber, panels & many millwork products sold in the N.A. market & key export markets

• We produce <u>Multi-Client Reports:</u> Europe & Russia; Clearwood Pine, Global Lumber Benchmarking; The China Book; WOOD Markets 2000, 2002, 2006, 2010; & the WOOD Markets Monthly Report

# **Presentation Outline**

1. Global Perspectives + Export Markets 2. China: A) Wood Demand and "Gap?" nee B) Log Imports C) Lumber Imports D) Russia Log Export Tax E) Profile of the Chinese Industry 3. China vs. US PNW sawmills 4. North American Lumber Outlook 5. Summary/Review



# 1. Global Timber & Lumber Supply

# Short Term to Mid Term Demand Issues (2011-2013):

- U.S. housing starts return to a "more normal" 1.5 million units when?
- Slow growth expected in U.S. market for 2011 & 2012.
- EU demand to remain 'flat' in 2011 & 2012 ( due to debt crisis and economic recovery?).
- China's growing demand (emerging gap vs. demand).
- Rising demand in Middle East & North Africa markets.
- Japan rebuilding after the earthquake & tsunami.
- Other Asian growth markets steady increasing demand in S.Korea, Taiwan, Viet Nam. Growing demand for softwood logs and lumber in India.



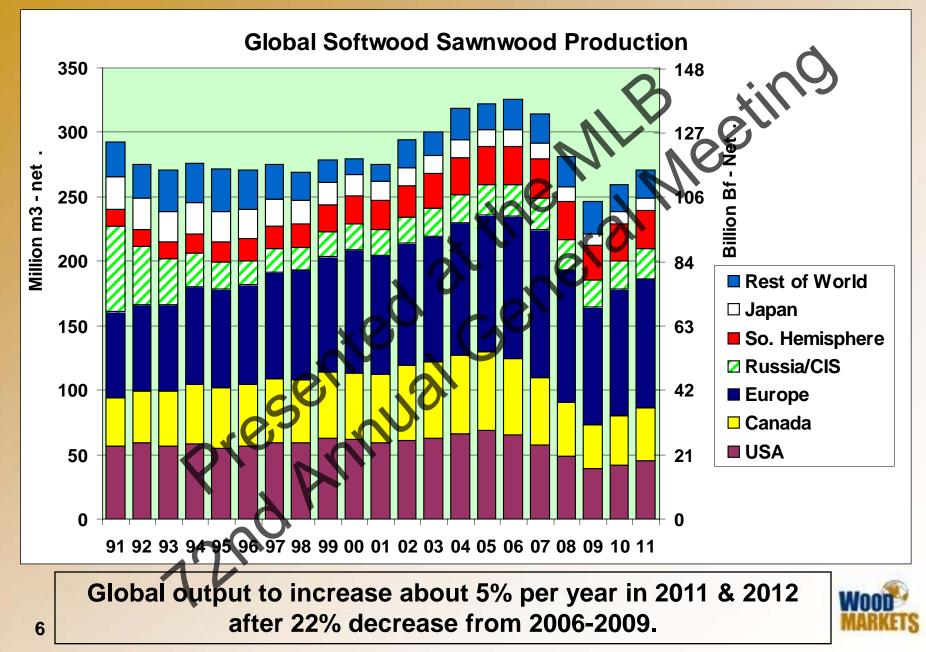
# **Global Timber & Lumber Supply**

# Mid to Longer Term <u>Supply</u> Issues (2011+):

- Strategy of Timberland Investment Mgt. Organizations (TIMO's) in U.S., New Zealand and other countries.
- Rising wood costs in Europe due to biomass demand
- China's ongoing timber supply "gap" and need for imports
- Russia log export tax & WTO: going from 25% to 12.5%?
- 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: Markets in India, Other Asia, sawmill competitiveness between regions and in export markets.
- Ocean freight rates & currency fluctuations



# **Global Softwood Lumber Production**



# Outlook for Traditional Asian/Oceania Markets

- China: Continuation of strong Growth!
- South Korea
  - Steady to increasing demand for logs & lumber
- Japan
  - Rebuilding will increase demand for logs and lumber in 2012
- Australia
  - Strong demand due to rebuild flood damage & strong economy.
  - Very high lumber prices (US\$325/m3; US\$600/Mbf - nominal).
  - Strong demand drivers in other parts of Asia

# **Emerging Export Markets + Europe**

- Middle East and North Africa: huge lumber and panel market for Europeans, Russians, Southern Hemisphere, etc., but high freight rates
- India: a growing import market:
  - New Zealand: exporting 1+ million m3/yr of logs
  - More softwood lumber is going to this market, but traditionally a teak/tropical hardwood market.
  - Is expected to become the 'next China'.
- Vietnam: continues to import softwood lumber (little to no domestic forests).
- Pakistan: a hot market for Europeans.
- Europe: high prices in Europe (US\$270+/m3) could create some opportunities.

# **Global Sawn Lumber Prices**

- WOOD MARKETS Monthly Lumber Price Index for three key wood market regions in the world – June 2011 (mixture of products & cif prices)
- Japan = US\$974/Mbt or \$434/m3
- Europe = US\$777/Mbf or \$329/m3
- U.S. = US\$289/W6f or \$186/m3
- Conclusion: U.S. market is by far the lowest priced lumber market in the world.
- Need stronger focus on off-shore exports as can't wait for normalized U.S. market.
- Much has been done in Canada (B.C.). Much more can be done!

**<u>2. CHINA: Growing Role in Global Trade</u>** China's rank in wood products global production & trade:

- Production:
  - Plywood
  - MDF
  - Furniture
  - Hardwood lumber
  - Particleboard
  - Softwood lumber
  - Finished Products
     Soari
- Imports
   Lumber Imports
- **Global Ran** (after US & Canada) Soaring **#2 (after the USA)** 
  - #1 (in 2011 or 2012???)
- Exports #1 China needs IMPORTED RAW MATERIALS



# **China: Trends & Issues**

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

- Strong economic growth in China 
   has repounded quickly and strongly since early 2009 and is expected to continue at ~8-9%/yr.
- China's domestic wood products demand growing at about 10-15+% 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 GDP growth and wood products growth are tied closely.



# Some Reasons Behind Rapid Growth of Wood Demand

- Chinese government plans to build 36 million lowincome houses (apartments) by 2015. Private housing starts of 18-20 million will create 50-60 million new houses by 2015.
- McKinsey estimates that China's urban population will increase by 350 million people by 2025.
- By 2025 China expected to have 221 cities over one million population (Europe has 35 today).
- China's middle class is projected to double in next ten years (increase by 350 million).
- Government believes strongly they must improve quality of living for majority of people. Key to social stability.



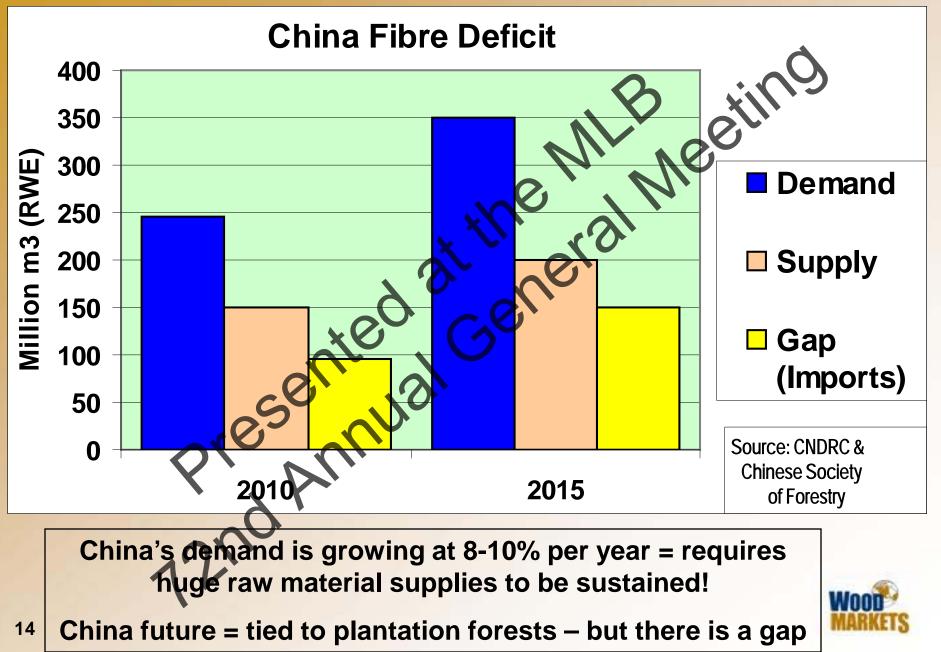
# **2A. China: Raw Material Gap**

# China's total "wood" demand:

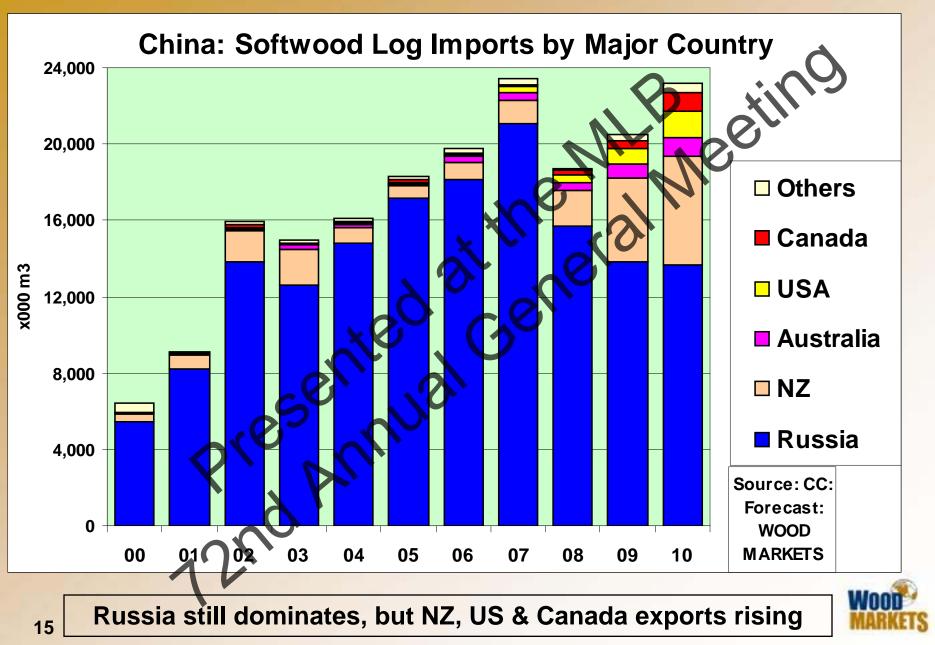
- Is expected to grow from 250 million m3 in 2010 to 350 million m3 by 2015 (conservative +8% per year).
- The projected wood deficit (or the rale of imports) is expected to grow from 100 million m3 to 150 million m3 – Roundwood Equivalent (10% per year).
- However, Chinese industry forecasts indicate 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 100-150+ million m3 (RWE) of imports come from over the next 5 years??



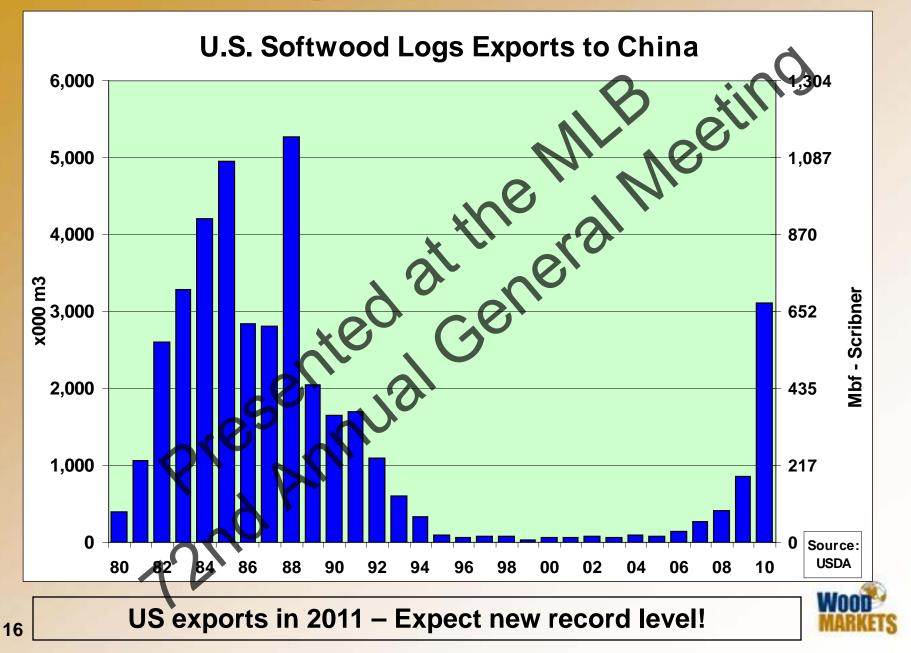
# **China's Fibre Deficit = Huge!**



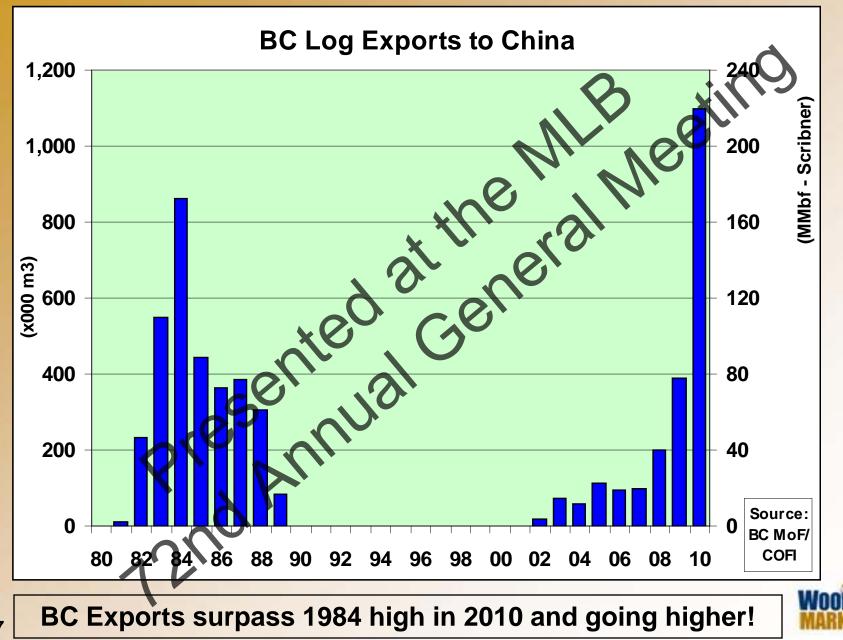
# **2B: China: Softwood Log Imports**



# **US Log Exports to China**

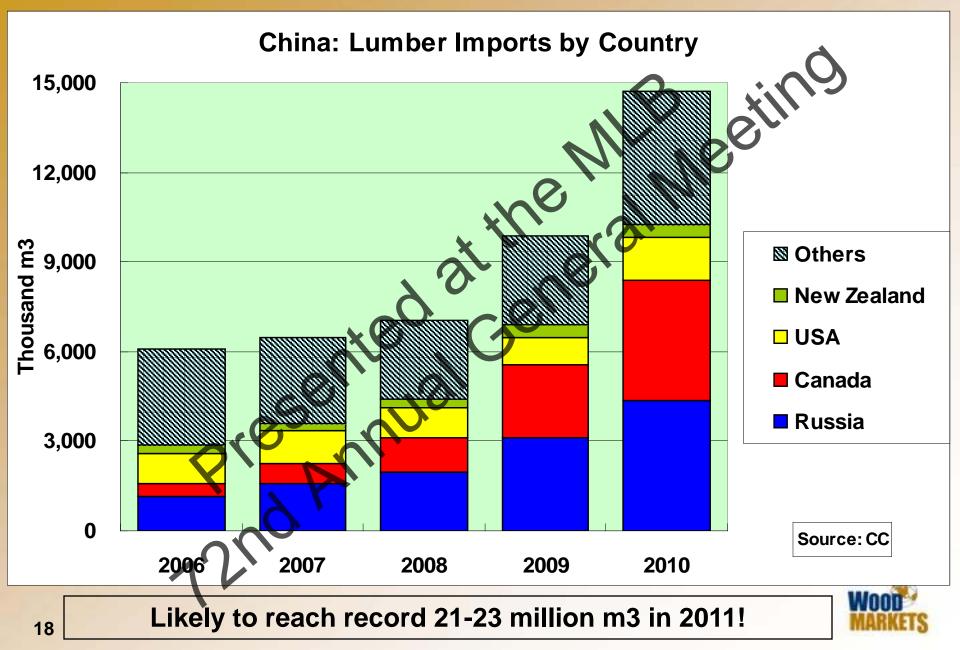


# **BC Log Exports to China**

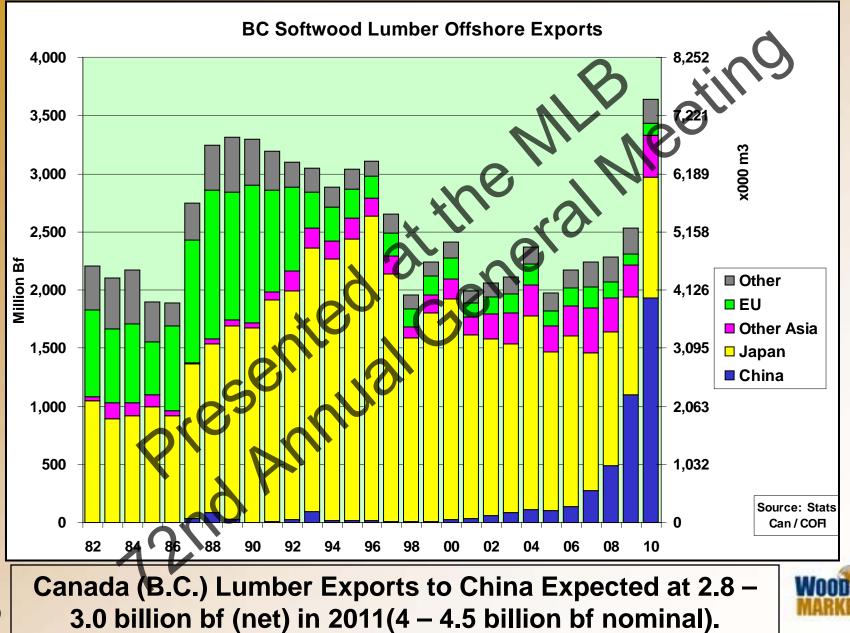


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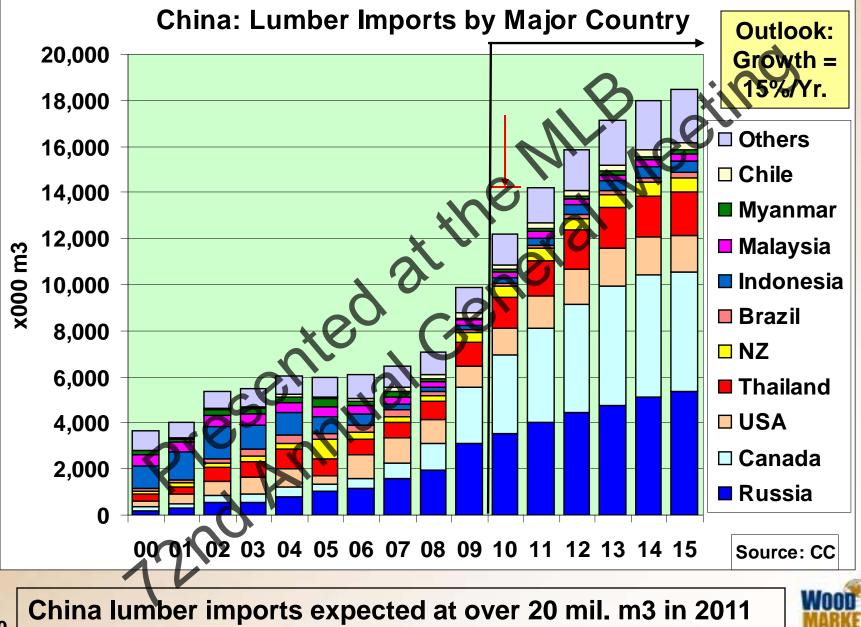
# **2C. China's Lumber Imports = Soaring**



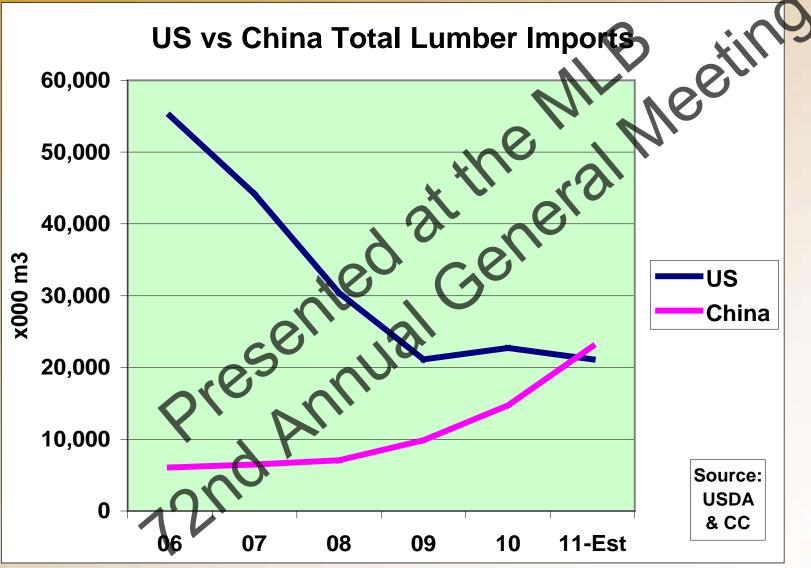
# **Canada (BC) Lumber Exports to China**



# **China Lumber Imports to Soar!**



# China to become largest lumber importer in the world in 2011?





# **2D. 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.
- Russian log export tax may be 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.
- Many Chinese sammills (estimate 150-200 sammills) have been built in South East Russia to avoid log tax. Continues to grow.



# **Russian Log Export Tax: Impact**

### **Russian Log Costs & Margins - Delivered to Shanghai**

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COST CATEGORY	COSTS	COSTS	COSTS		
	US\$/m3	US\$/m3	<b>US\$/m3</b>		
Russian Log Export Tax	@25%	@12.5%	<b>@0%</b>		
Logging, Hauling, Stumpage, Rail	7	~0			
Car Loading	0.				
Rail Cost to Border/Border Charges					
Importer Margin & Rail Costs to Shanghai	· 0 ·				
Unloading & Transport to Shanghai Mills	0				
Total Costs	\$140	<b>\$140</b>	<b>\$140</b>		
Russian Log Export Tax	\$21	\$11	\$0		
Total Delivered Log Costs Shanghai	\$161	\$151	\$140		
Log Market Price (April 2011)	\$170	\$170	\$170		
	<b>WITO</b>	<b>WITU</b>	<b></b>		
Margin to Russian Logger	\$9	\$20	\$30		
Margin to Russian Logger	LOW	MODERATE	HIGH		
Source: WOOD MARKETS - Global Timber / Sawmill / Lumber					
Cost Benchmarking Report 2011 - release date: June					

Lower export tax improves logging margin, but this would likely lower Chinese market prices & then reduce logging margin

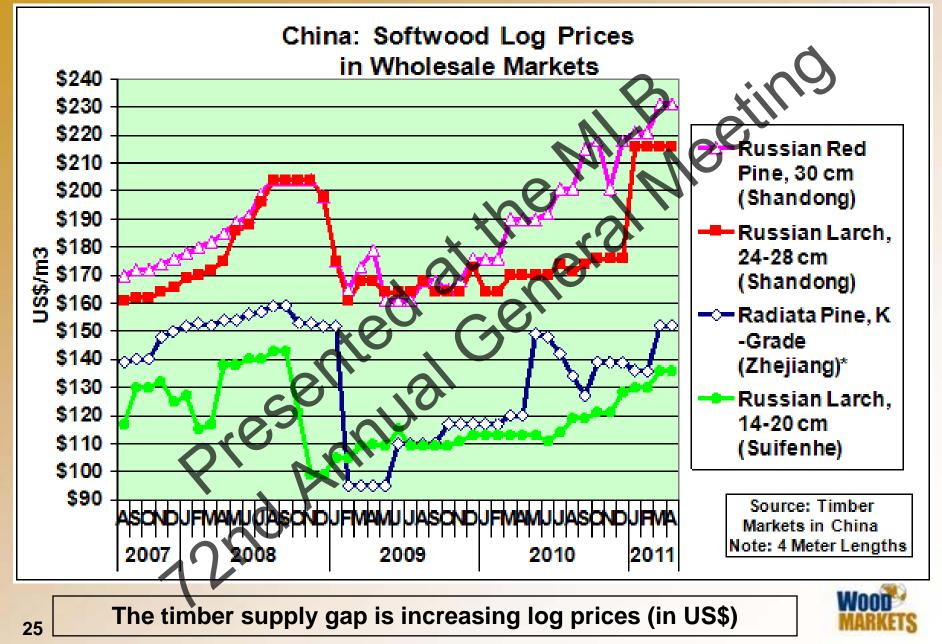


# **2E. Profile of the Chinese Industry**

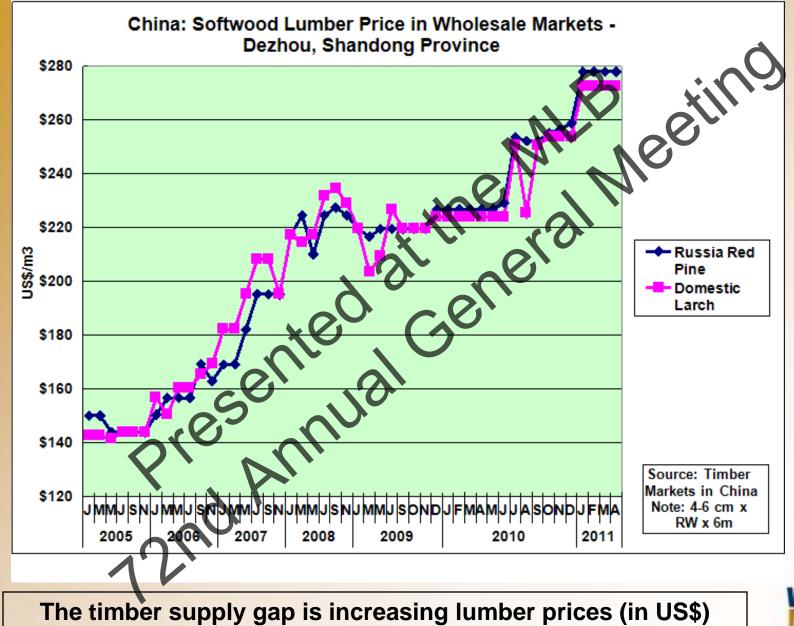
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# **Imported Log Prices Up**

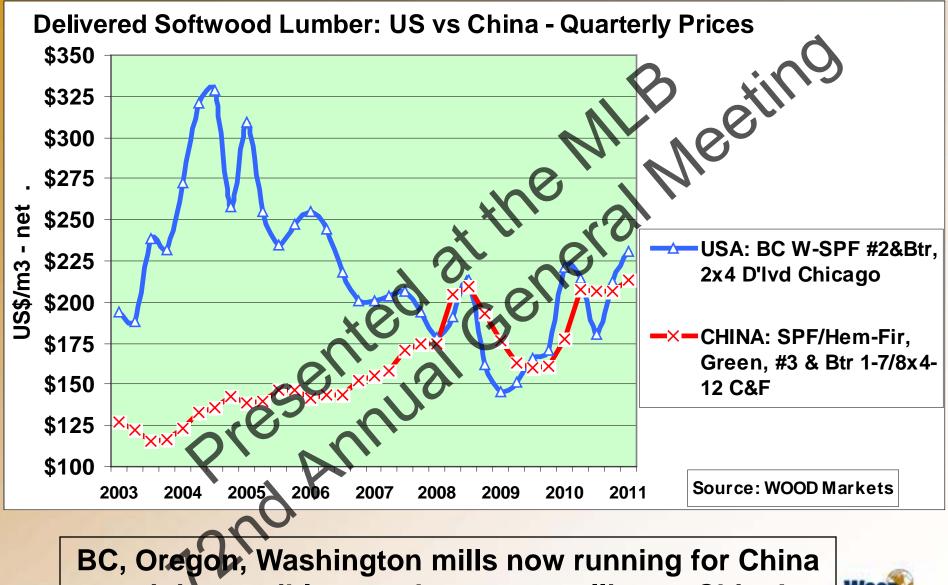


# **Domestic & Imported Lumber Prices Up**



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



as it is possible to make money selling to China!

WOOD MARKETS' **China Bulletin** SECOND CHINA EDITION THE CHINA BOOK: ice 2007 **Wood Products Industry** and Market Review eaturing: Assessment of China's Raw Material **Requirements, Production Scale** and Fit in Export Markets Industry Trends & Analysis, Statistics Import/Domestic Log, AVAILABLE MARCH 2010 Lumber & Panel REPARED AND PUBLISHE International WOOD MARKETS Research Inc. Prices



The 5-year outlook; or monthly log/lumber prices/updates

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# 3. 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 and logistical 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 cit China port. Chinese mills are still profitable at this log price.
- Continuing pressure expected for 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** 

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	く、く、	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		
Total Costs	ADVANTAGE			
Average By-Product Revenue	ADVANTAGE			
Average Lumber Revenue		ADVANTAGE		
EBITDA Margin		ADVANTAGE		
EBITDA Margin	SUBSTANTIAL LOSS			
Source: WOOD MARKETS - Global Timber / Sawmill / Lumber				
30 Cost Benchmarking Report 2011 - release date: June MARKETS				

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

# 2011 EDITION 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 Scoply, Demand and Prices, including Mill Operating Fates

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

Prepared and published by ornational WOOD MARKETS Group Inc. Excerpts from our latest 5year forecast

Outlook for Lumber & Panel Products

Released: Dec 2010



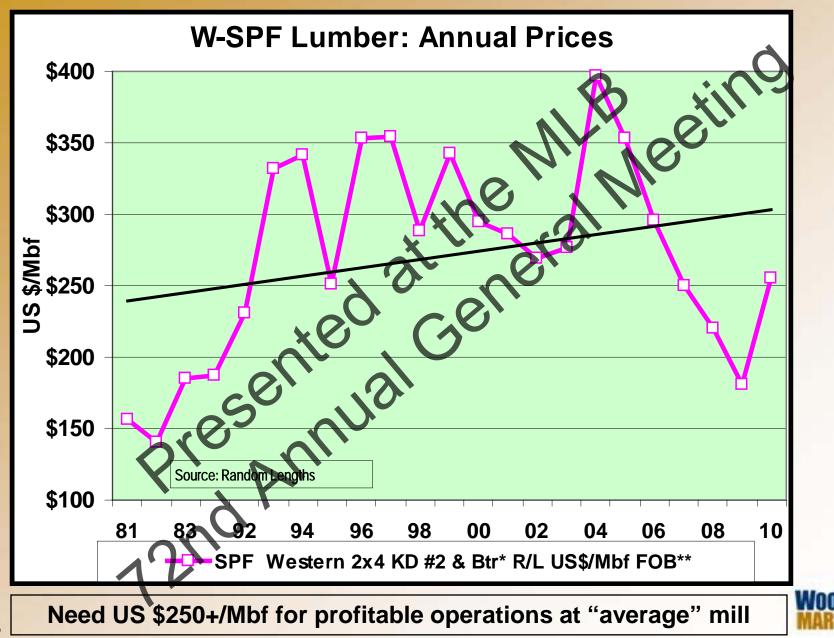
LUMBER = PANELBOARDS = TIMBER = ENGINEERED WOOD = ECONOMICS = MARKETS = FORECASTS

# **Forecast: N.A. Major Supply Drivers**

- Timber supply availability (public vs. private)
- Log export volumes in U.S. and B.C.
- Mountain pine beetle implications in B.C. and Alberta;
- Reduced timber supply in Quebec;
- Cost competitiveness (log and mill costs)
- Transportation & delivered costs to market;
- Currency exchange rates;
- Impact of Softwood Lumber Agreement;
- Growing Opportunities in export markets;



# **US Lumber Prices = Below Normal**



# Presented at the MLB estind Presented at the number of the set of **Look at Canadian Lumber - Output &**



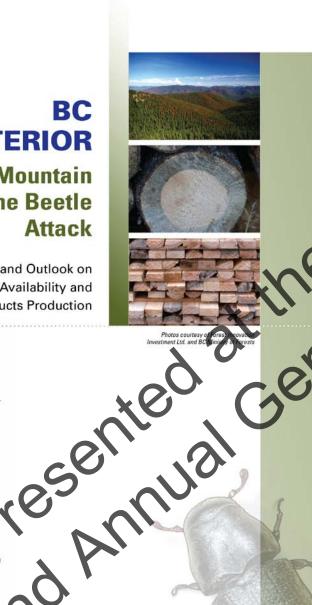
### BC **INTERIOR** Mountain **Pine Beetle** Attack

Impact and Outlook on BC Timber Availability and Wood Products Production

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### 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



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

**BC Interior:** 

**Mountain Pine** 

precast:

to 2028

Beet

- Jim Girvan
- Murray Hall
- Russ Taylor

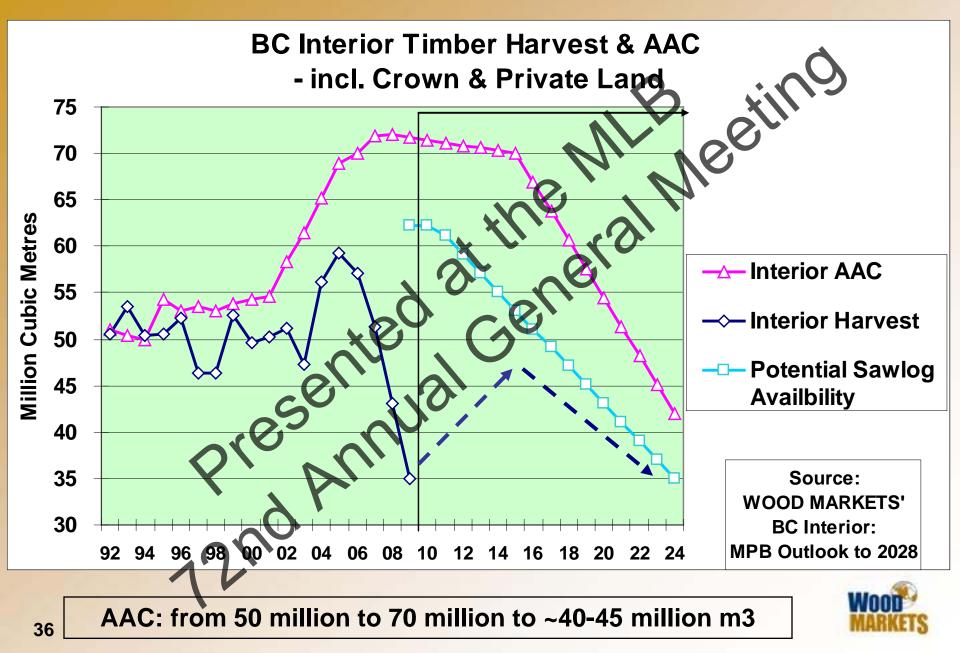
Gerry Van Leeuwen

**Released: Late March 2010** 

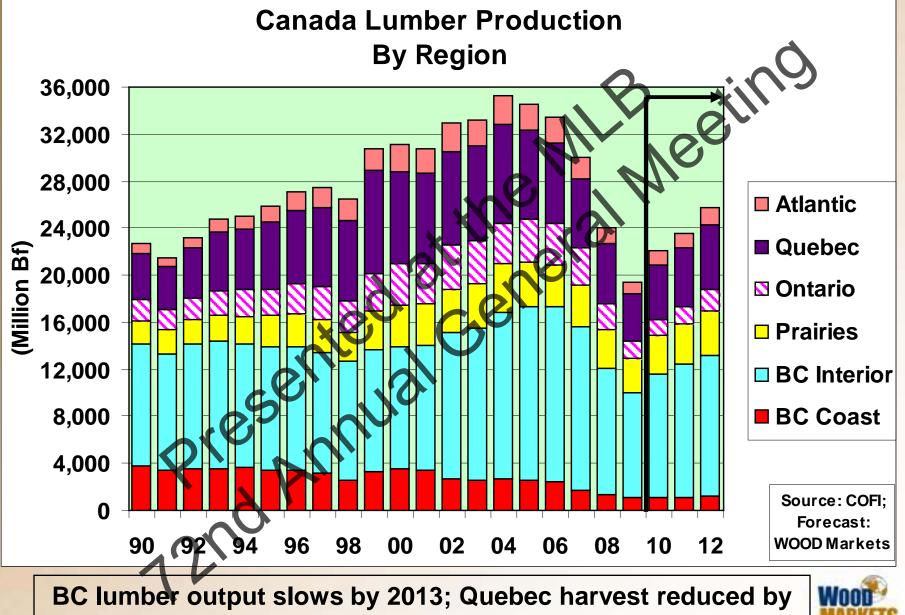


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# **BC Interior: Timber Harvest & MPB**

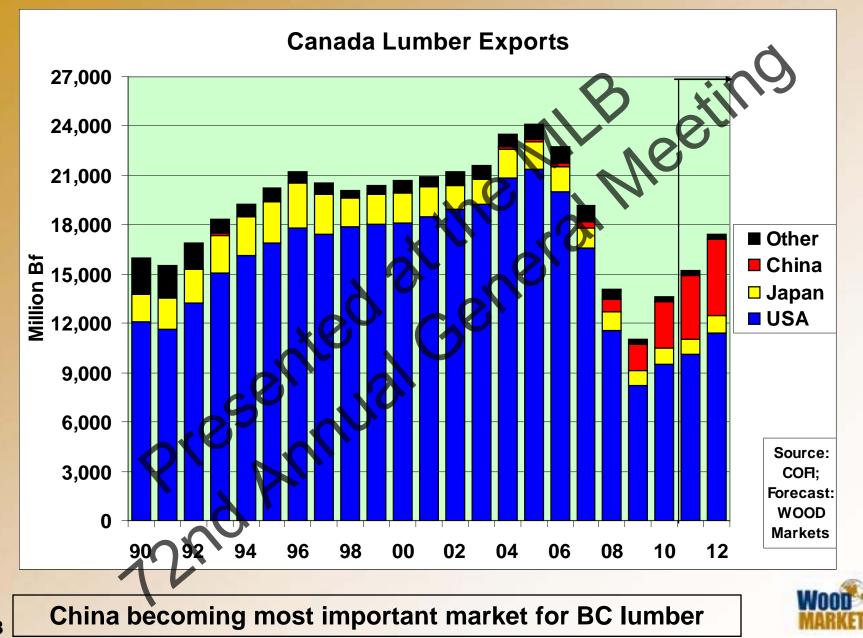


# **Canadian Lumber Output: Sags by 2015**

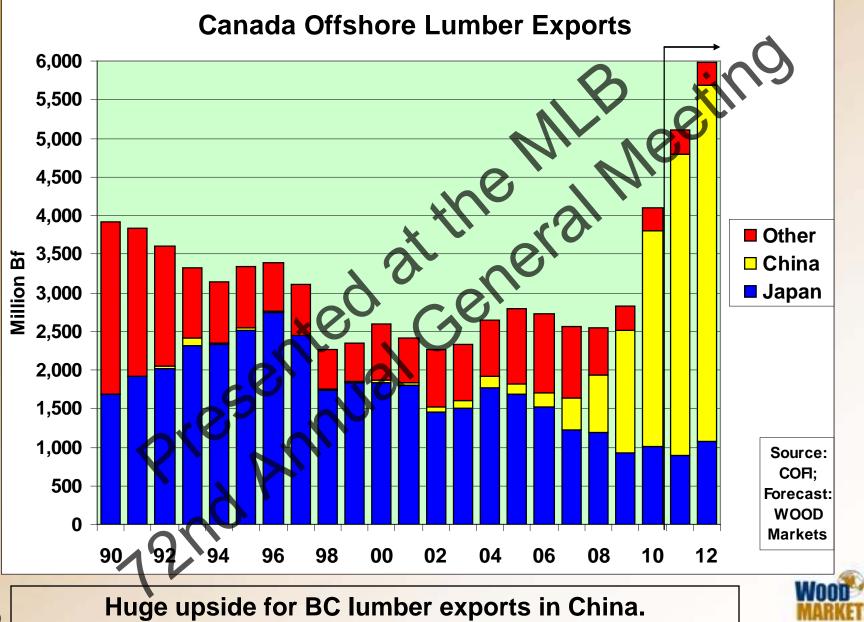


<sup>37</sup> another 10% in 2013; Reductions not offset by other regions

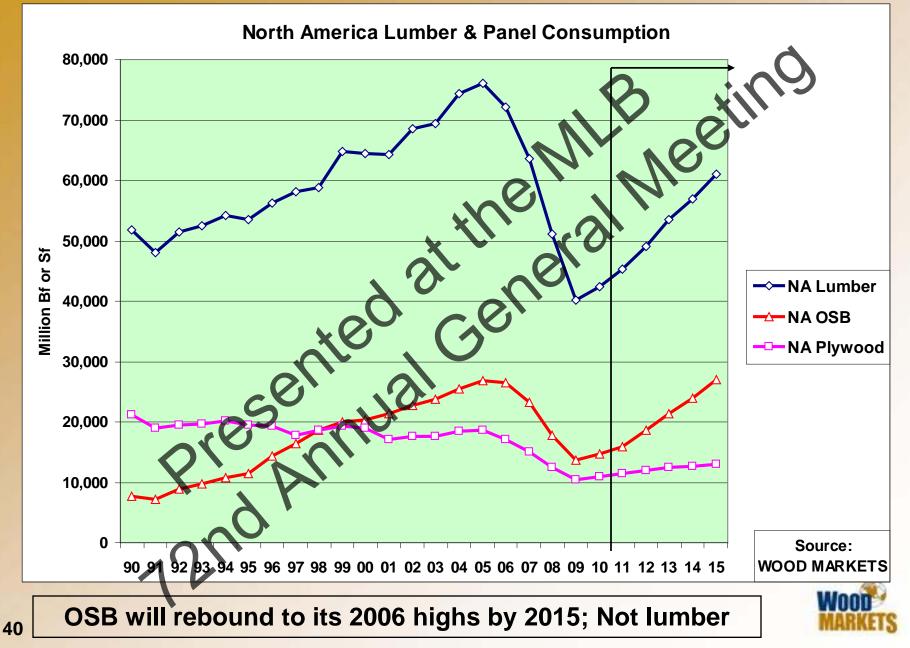
# **Canada Lumber Exports Rebound**



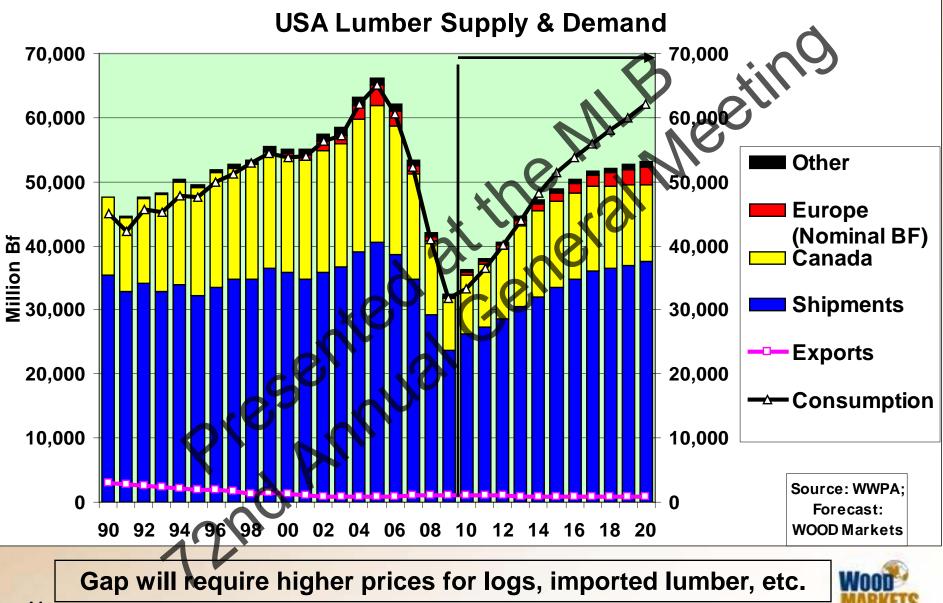
# **BC Lumber Exports to China = Soar**



# **NA Wood Products Consumption: Up!**

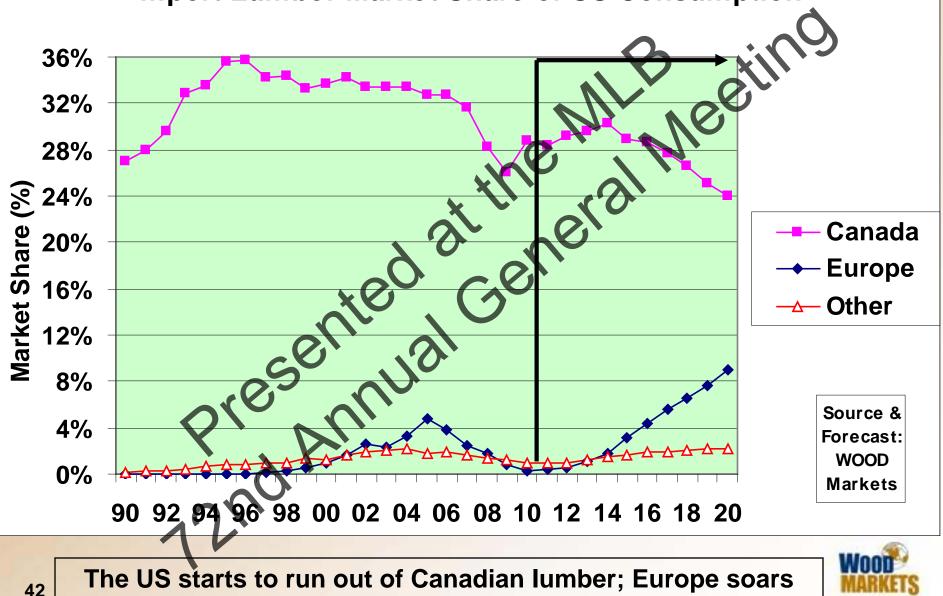


# **Potential Scenario 2020 = Lumber Gap**

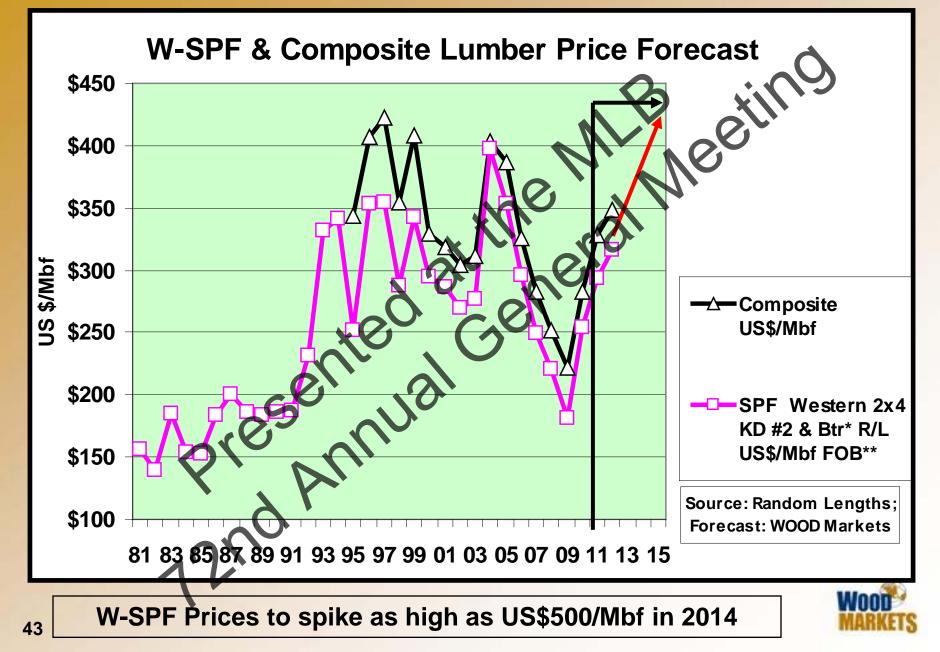


# **Canada Market Share of US Consumption**

**Import Lumber Market Share of US Consumption** 



# US Prices to Soar by 2013-14



### **WOOD MARKETS: 2 Conferences: VANCOUVER BC CHINA** Sept. 12-15: May <u>9</u> 2012; China International **SOFTWOOD Log &** N 201 **Lumber Trade** May 9, **Conference** MARKET CONFEREN May 9, 2012 ANCOUVER, BC Tianjin, China FEATURING One-day international wood products/markets conference September 1596 A cross-section of North American and international speakers Discussions and analysis about challenges, new opportunities, threats and outlooks Plus: Optional 3-Da In conjunction with: PwC's 24th Annual One-Day Global Forest & Paper Industry Conference: May 11, 2011 Tour of Log Ports The Pulp and Paper Producers Council Annual Meeting: May 9-11 2011 The Global Forest Products Leadership Summit 2011: May 9 -11, 2011 and Distribution (Sept. INTERNATIONAL WOOD MARKETS GROUP INC. Vancouver BC

# WOOD

# 5. Summary: Global Perspectives/Trends Key Demand Issues:

- Global softwood log demand growing at 1-2%/yr
- US & global housing starts! (we are at the bottom!) a slow/steady rebound is expected...
- European market also to recover slowly...
- Rebuilding demand in Japan.
- Roaring demand in China to fill fibre shortage.
- Korea, Taiwan, Vietnam = all require imports.
- Middle East/North Africa = all require imports.
  Australia requires more imports.
- India =next country with major supply shortages

Global Perspectives & Trends Key Supply Issues:

Global timber supplies are getting tight:

- North America: MPB & Quebec timber reductions + TIMOs in the U.S.
- Russia: Log export tax schedule + WTO
- Europe: private landowner strategies?
- China's dependency on imported logs
- Tropical hardwood log harvests declining
- Illegal logging being restricted

As timber gets tighter, higher log prices are expected + higher wood product prices!
A lumber "super cycle" is coming...,(2014-2015?) but will be supply driven, not demand driven!

