

# **WOOD CUTTING LOAD ON FOREST STANDS IN THE RUSSIAN FAR EAST AND NORTHEASTERN CHINA**

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# NEA Boreal and Northern Temperate Forests



\* - picture taken from [www.birdlife.org](http://www.birdlife.org)

# RFE and NEC Forests

## Similar Features

- Mixing boreal and northern temperate forests biome.
- Nearly simultaneous starting of industrial loggings, about 150 years ago.
- Former planned economies in both countries.
- State forest property.
- Reforms in forest sectors last decade.

# Aggregated Timber Production in RFE and NEC

- **in RFE in 1850-2004**  
**2214 million cubic meters\***
- **In NE China in 1949-2000**  
**1101 million cubic meters\*\***

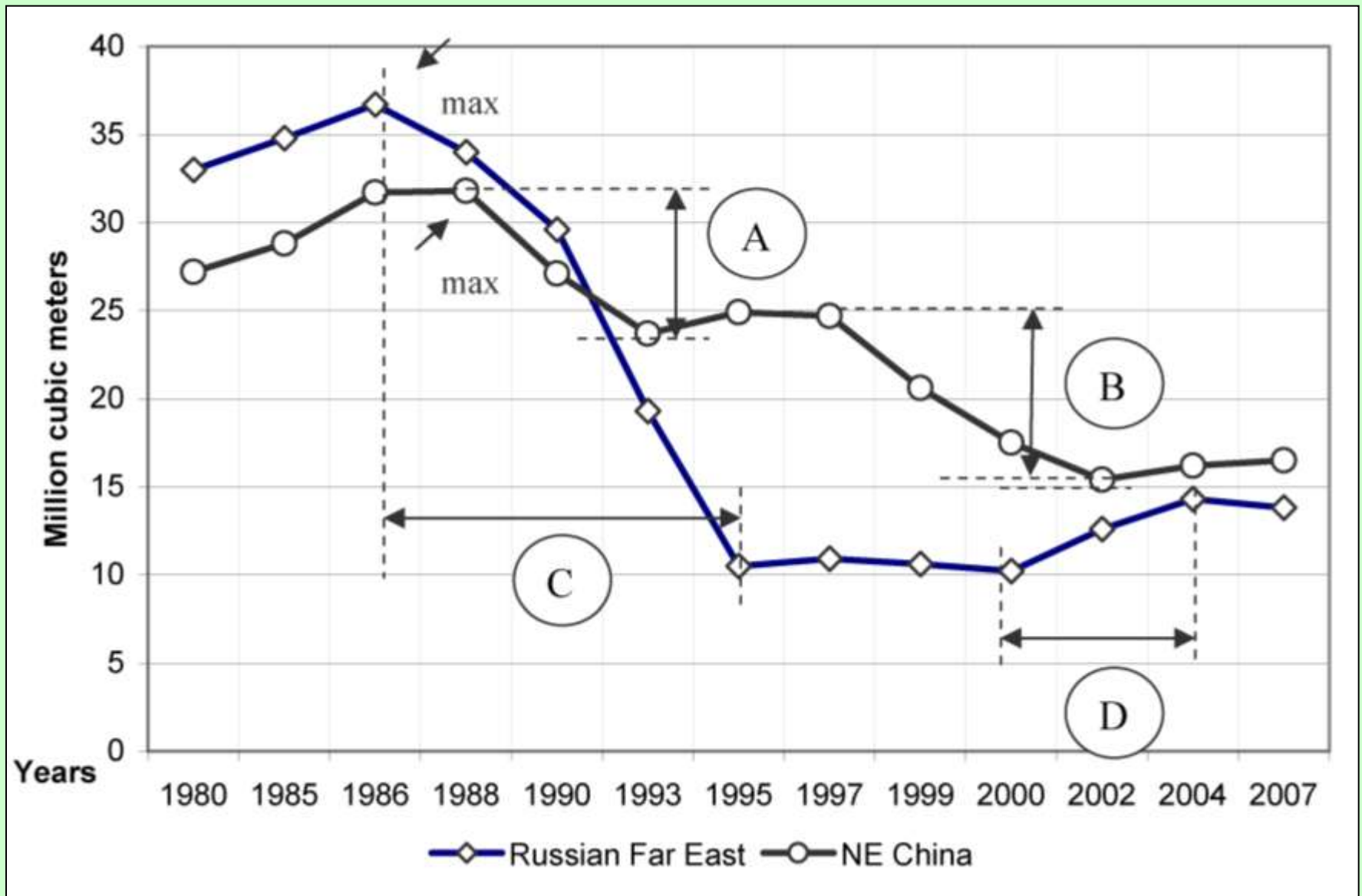
*\* estimations by Prof. Sheingauz A.S.*

*\*\* calculated using Dongbei Quyu Fazhan Baogao, China Forestry Statistical Yearbooks*

# Cutting Load Formula

$$\text{Cutting Load, m}^3/\text{ha} = \frac{\text{Annual timber production volume, m}^3}{\text{Forest lands area, ha}}$$

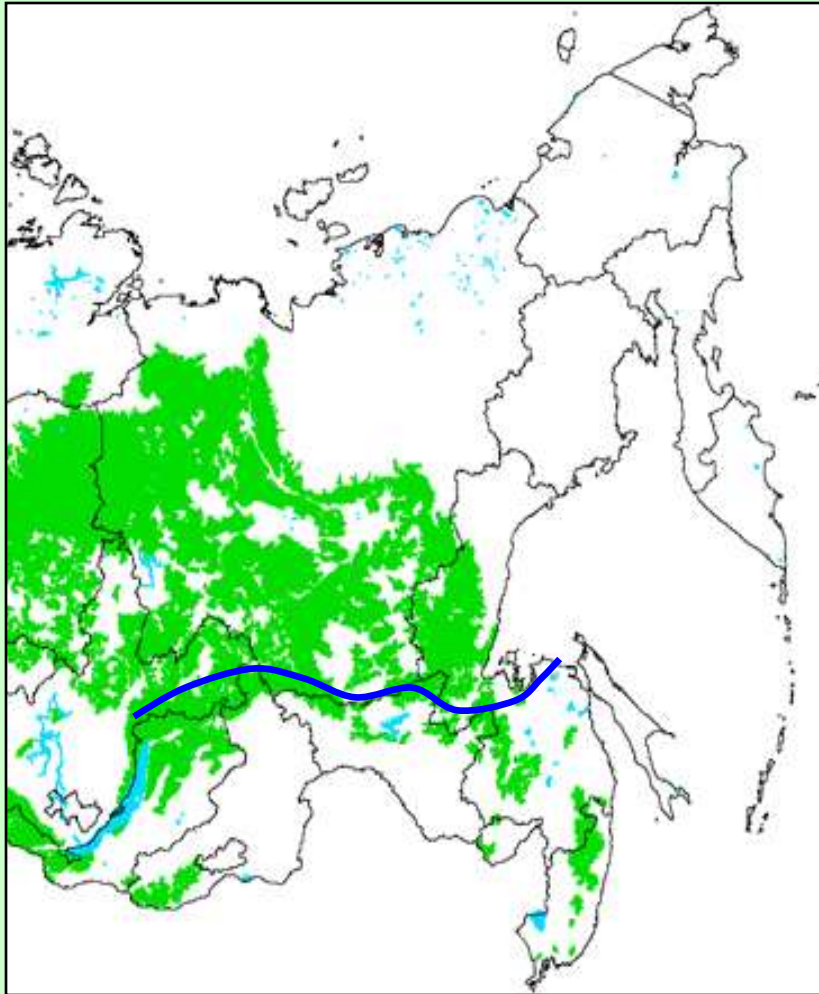
# Annual Timber Production in RFE and in NE China



# Change in the RFE forest resources

	1983	1993	1998	2003	2007
Forested area, million ha	345.7	351.1	353.1	353.0	356.9
Timber stock, million m3	20,917.9	20,450.0	20,362.5	20,047.9	20,611.3
Forest cover, %	42.8	44.0	44.7	44.3	45.1
Cutting load, m3/ha	0.098	0.055 <b>(0.18)</b>	0.018 <b>(0.06)</b>	0.038 <b>(0.14)</b>	0.038 <b>(0.14)</b>

# Rough northern border of economically accessible harvesting areas in RFE



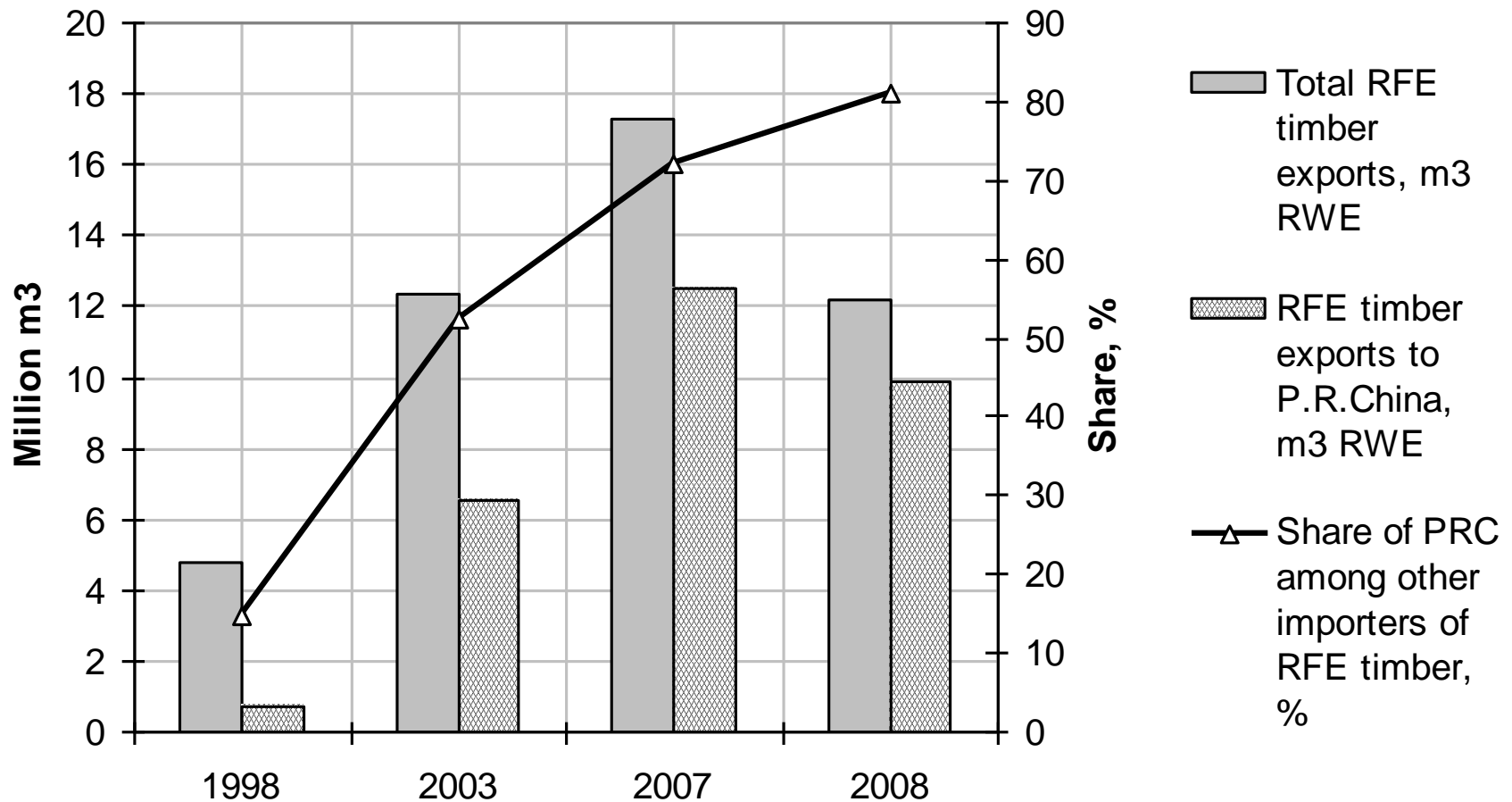
**Main timber producing regions in RFE:**  
Khabarovskii Krai  
Primorskii Krai  
Amurskaya Oblast



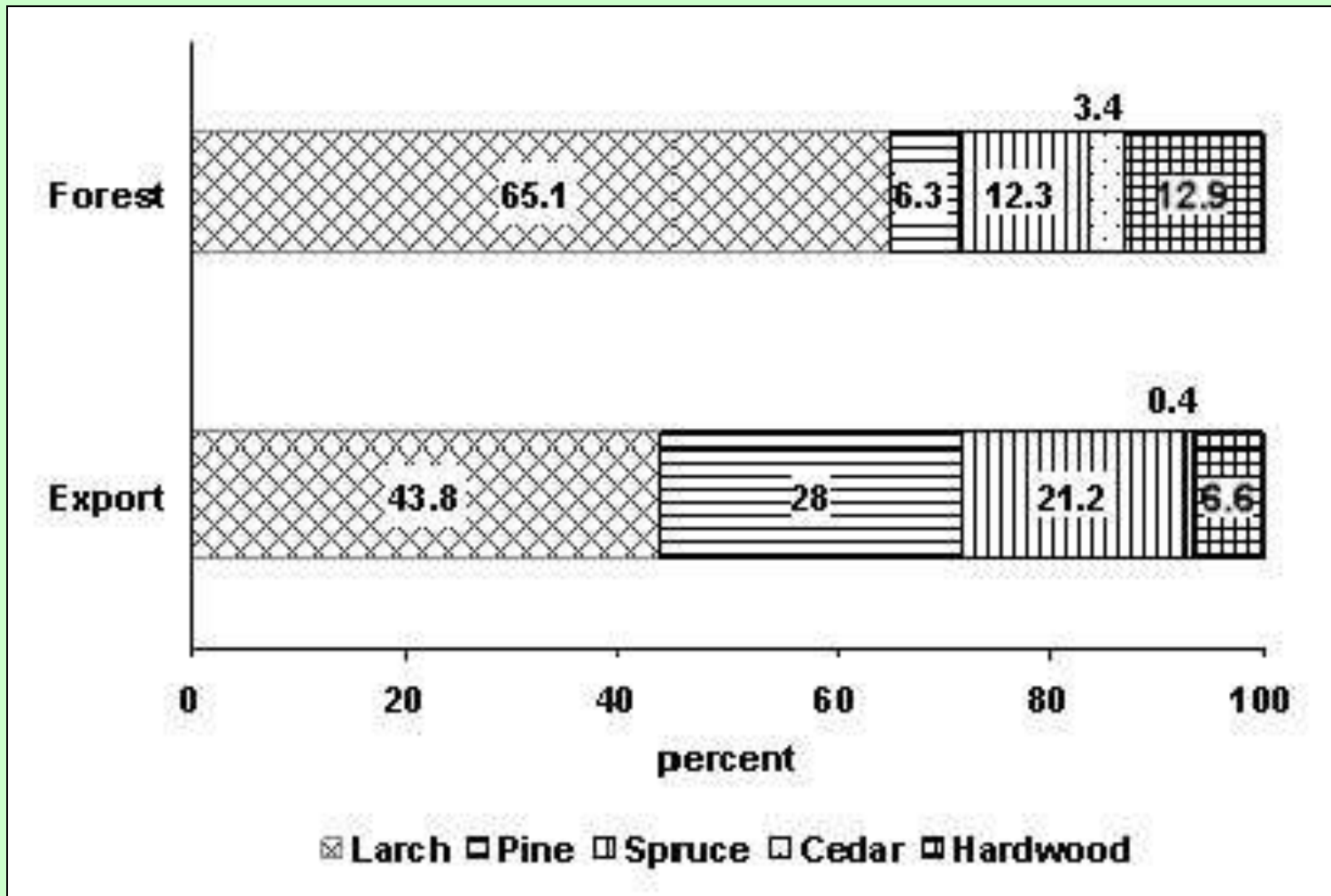
# Change in NE China forest resources

	<b>2<sup>nd</sup> inventory: 1977-1981</b>	<b>3<sup>rd</sup> inventory: 1984-1988</b>	<b>4<sup>th</sup> inventory: 1989-1993</b>	<b>5<sup>th</sup> inventory: 1994-1998</b>	<b>6<sup>th</sup> inventory: 1999-2003</b>
<b>Forested area, million ha</b>	<b>35.1</b>	<b>35.7</b>	<b>36.6</b>	<b>39.4</b>	<b>41.3</b>
<b>Timber stock, million m<sup>3</sup></b>	<b>2,941.4</b>	<b>2,892.4</b>	<b>3,002.7</b>	<b>3,178.9</b>	<b>3,293.0</b>
<b>Forest cover, %</b>	<b>19.5</b>	<b>19.8</b>	<b>20.3</b>	<b>21.9</b>	<b>22.9</b>
<b>Cutting load, m<sup>3</sup>/ha</b>	<b>0.78</b>	<b>0.88</b>	<b>0.68</b>	<b>0.65</b>	<b>0.42</b>

# RFE Timber Exports



# Structure of Round Log Exported from RFE, and Mature Timber in the Forest Stock, %



# Assortment of Round-Wood exports from RFE, %

<b>Name of product</b>	<b>1998</b>	<b>2003</b>
<b>1<sup>st</sup> grade sawlog</b>	<b>0.4</b>	<b>7.3</b>
<b>1<sup>st</sup>-2<sup>nd</sup> grade sawlog</b>	<b>12.8</b>	<b>39.8</b>
<b>2<sup>nd</sup> grade sawlog</b>	<b>0.2</b>	<b>3.0</b>
<b>1<sup>st</sup> to 3<sup>rd</sup> grade sawlog</b>	<b>66.2</b>	<b>3.0</b>
<b>2<sup>nd</sup> to 3<sup>rd</sup> grade sawlog</b>	<b>0.01</b>	<b>0.1</b>
<b>3<sup>rd</sup> grade sawlog</b>	<b>7.1</b>	<b>34.1</b>
<b>Pulpwood</b>	<b>12.1</b>	<b>12.0</b>
<b>Miscellaneous</b>	<b>0.9</b>	<b>0.2</b>
<b>Ungraded</b>	<b>0.3</b>	<b>0.5</b>
<b>Total</b>	<b>100.0</b>	<b>100.0</b>

# Final

Future trends in timber production in RFE will be mainly determined by outer demand for round wood, namely:

- from P.R. China as the world largest wood processing mill and furniture producer
- the world financial recovery and increasing of consumer demand
- Russian Federation Government customs policy, etc.