

Workshop on statistics of forest products in Viet Nam

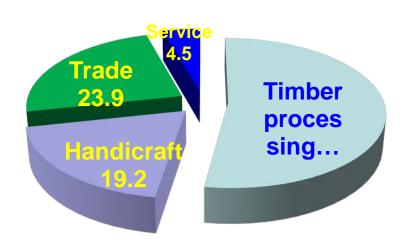
EFFICIENCY OF TIMBER USE AND CONVERSION COEFFICIENT

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Introduction to HAWA

- The establishment of Handicraft and Wood Industry Association of Ho Chi Minh City (HAWA):
 - 1990: Handicraft Association under Trade Association of HCMC
 - 1997 to present: Handicraft and Wood Industry Association of HCMC
 By operating field (%)
 - A voluntary organization of enterprises
 - 430 members
 - By geography:
 - HCMC: 54%
 - Other provinces, cities: 46%



Source: HAWA

Viewpoints of enterprises on natural resources

• Attitude to environment:

- Natural resources are limited
- Forests are lungs of mankind, storehouse of water, shields to prevent sand, storms, walls to prevent floods, shelters of wildlife...
- Love and respect nature, warn people about consequences of excessive use of natural resources.
- Forests also have life and soul, and are the heart of the country
- Trees are living beings that God has given to humans, thus they should be respected

Actions by HAWA and enterprises

HAWA:

- Help enterprises understand requirements of relevant domestic and foreign legal regulations, such as the Forestry Law, Lacey act, FLEGT, ...
- Provide information about market opportunities and trends
- Encourage afforestation and use of plantation timber
- Equip with advanced and new technologies in order to increase the proportion of timber utilization

Enterprises:

- Strictly comply with domestic and foreign legal regulations
- Viet Nam currently has 732 enterprises with CoC/FSC certificates, in which 49 enterprises have FSC/FM certificate with area of 235,000 ha
- Cooperate with forest farmer to plant forests, certify sustainable forest management and increase age of plants

HAWA Creating legal and sustainable timber source

 VN has over 2.8 mil. ha of plantation forests with growing stock of 117.3 mil m3, nearly 1.5 mil. households are participating in forest plantation

Roles of plantation timber:

- Creating a legal timber source for production
- Motivation for rural development, a timber source in the supply chain
- Helping increase forest cover, reduce emission, prevent erosion and natural disasters, reduce the stealing of natural timber
- Changing the habit from using natural timber to using plantation timber

Linkage between enterprises and households:

- To maintain the harvesting age until the 10th year
- To provide financial support and product consumption
- To contribute to completion of supply chain of raw materials
- To create a stable position for the timber industry

Reasonable use of timber

- Raw timber material accounts for 35% of cost structure of products. Enterprises must use timber reasonably:
 - Using timber species for right purposes
 - Saving resources for next generations
 - Reducing costs
 - Increasing economic efficiency
- Intermediary processing at the planting sites helps:
 - Create more jobs
 - Reduce transportation cost by 75%
 - Make use of the most of raw materials (big timber: sawn, dried, 4-side planed for furniture production; small timber: branches, roots are planed for making woodchip, MDF, paper pulp, pellets).
 - Improve economic efficiency for forest farmers



The using proportion of some plantation timber in Viet Nam

- The using proportion of Melaleuca timber, from round timber to sawn timber:
 - Depend on diameter and sawn method
 - − ∮ from 15 20 cm, efficiency 50%, corresponding coefficient 2:1
 - − \$\phi\$ from 20 30 cm, efficiency 53%, corresponding coefficient 1.8:1
 - − \$\phi\$ from 30 40 cm, efficiency 60%, corresponding coefficient 1.6:1
- The using proportion of rubber wood, from round timber to sawn timber:
 - ♦ from 10 20 cm, efficiency 50%, corresponding coefficient 2:1
 - ∮ from 20 30 cm, efficiency 55%, corresponding coefficient 1.8:1

 - ϕ from 50 60 cm, efficiency 65%, corresponding coefficient 1.5:1₇



The using proportion of some imported timber

- The using proportion of Ash timber, Oak timber, from round timber to sawn timber:

 - \$\phi\$ from 60 cm, efficiency 65%, corresponding coefficient 1.5:1
 - From round timber to timber products: 45%= 2.23
- The using proportion of Ash timber, Oak timber from round timber with φ ≥ 50cm to timber products, efficiency 45%, corresponding coefficient 2.3:1
- In general, the bigger diameter of timber, the higher efficiency and vice versa

HAWA

Ratio of conversion from some production to round timber

Product	HS code	Ratio of conversion
Round timber (m3)	4403	1
Wood pellets (ton)	4401	1.8
Hoopwood (m3)	4404	2.6
Wood wool, wood flour (ton)	4405	1.3
Sleeper (m3)	4406	2
Sawn timber (m3)	4407	1.43
Sliced veneer, peeled veneer (m3)	4408	3.3

Ratio of conversion from some production to round timber (cont.)

Product	HS code	Ratio of conversion
Flooring panel (m3)	4409	2.5
Particle board (m3)	4410	2.3
Fibreboard (m3)	4411	2.6
Plywood (m3)	4412	2.5
Jointed board (m3)	4413	2.6
Joinery and carpentry (m3)	4418	1.3
Chair (m3)	9401	4
Furniture (m3)	9403	3



Conclusions

- Plantation forests not only provide timber to society but also contribute to changing consumption habits to responsible consumption.
- In order to maintain and sustainably develop plantation forests, actions of enterprises are as follows:
 - Developing big-diameter timber plantation forests
 - Improving quality of production, putting heart and soul into products
 - Effectively using plantation timber and legally imported timber
 - Renovating technology, enhancing management capacity to save raw timber materials



