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Відходи розкрою MDF як сировина для виробництва погонажних елементів

Наведено обсяги споживання, імпорту та експорту MDF в Україні та деяких країнах Європи. Розроблено та наведено класифікацію відходів, що утворюються в процесі розкрою MDF. Проаналізовано типові карти розкрою MDF для виробництва дверних накладок (полотен) і на основі цього аналізу визначено залежність використання залишків розкрою від ширини профілю. На основі класифікації утворених відходів та аналізу технологічних процесів розроблено схему технологічного процесу виробництва погонажних елементів із відходів розкрою MDF.

Ключові слова: обсяги споживання MDF, відходи розкрою MDF, класифікація відходів, відсоток використання відходів, залежність відсотка використання залишків від ширини профілю, схема технологічного процесу виробництва погонажних елементів із відходів розкрою MDF.

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STRATEGIC EVALUATION OF INVESTMENT CRITERIA THROUGH THE EYES OF A FOREIGN INVESTOR AND NECESSARY TACTICS OF UKRAINIAN FOREST PRODUCTS INDUSTRY TOWARD INVESTMENT ATTRACTIVENESS

Some of the main actions that Ukraine needs to take in order to attract good forest investors are: establishment of attractive laws and regulations, have a design/management framework targeted specifically for foreign investments that is well understood at home and abroad, advertize those opportunities through various suitable media sources, emphasize eco-friendly and green-oriented investment environment, encourage industry tours for key players in the industry of foreign countries and worldwide, comply with various certification standards and world-wide industry agreements, demonstrate technological and intellectual advances in evaluation and logistics.

In the current downturn of the economy, U.S. producers and consumers of forest products look at the foreign markets in Central America, South Africa, Asia and Eastern Europe for new and exciting investment opportunities. What are the major variables that those investors are looking for?

- Unique emerging opportunities for investment,
- Availability of forest resources,
- Cheap labor,
- Sound country-wide and forest codex laws,
- Acceptable land laws,
- Favorable tax base: low corporate/private taxes and fees,
- Low bureaucratic/corruptive nature,
- Acceptable customs regulations,
- Overall stable political and economical situation of the country,
- Favorable corporate law,

- Developed/developing infrastructure (roads/hubs/access points),
- Technological improvements/advancements,
- Standardization,
- Certification,
- Eco-friendly products/processes.

Additionally, amidst stock market volatility, American investors are seeking new opportunities to diversify their portfolio of investments. They have proven to reduce the risk of investment portfolio due to the unique nature of those investments. While all the factors listed above are extremely important, some of the most deterministic are proper valuation of timberland and/or timber resources and ease of access/ease of doing business/cultural aspect of the relationship between foreign investor and investment presenter/domestic holder. Some of the important aspects of evaluation of timberlands as an investment are: the possibility of leases that are a win-win for both parties, valuable species of wood, healthy forests, accounting for history of various natural/man-made disasters, maturity of trees, close/convenient access to markets or primary/secondary manufacturing facilities, favorable costs of treatment, thinning, logging, hauling and transportation/shipping, low regulatory/trade fees.

Comparable value of a particular timberland investment should be higher when compared to similar investments worldwide!

Ease of doing business or, as I prefer to call it – cultural aspect, is one of the most significant ones for securing a successful investment transaction. A foreign businessman certainly has his interests in mind and is probably looking for a profitable successful capital expenditures opportunity. On the other hand, his agenda IS NOT a simple robbing of forest resources and plundering of the lands. While this investor is highly driven by profits of the deal, he is too interested in a good relationship and compliance with the government, economic and ecological regulations in the country of investment.

If we take, for example, American investor, who would like to invest in Ukraine, we are talking about merging of two completely different cultures that have to agree on a number of procedures and go through a huge amount of paperwork and meetings in order to come to an agreement. Prompt, very business-oriented and straightforward nature of an American investor can create unease and caution on Ukrainian side. He will be drilled thoroughly on the nature of his business, intentions, methods and procedures. On the other hand, American investor will take notice of non-timely, non-straightforward and overly protective nature of his Ukrainian counterparts. Most successful negotiations happen when both parties are aware of those cultural differences, more accepting of the manner of dealing business of both sides and while taking all that in consideration, are able to concentrate on the main aspects of the particular deal and go through the detailed written contracting procedure that is thoroughly discussed and beneficial for both parties.

Some of the main actions that Ukraine needs to take in order to attract good forest investors (increase inflow of foreign capital) are: establishment of attractive laws and regulations, have a design/management framework targeted specifically for foreign investments that is well understood at home and abroad, advertize those opportunities through various suitable media sources (especially foreign and in foreign language), emphasize eco-friendly and green-oriented investment environment, encourage industry tours for key players in the industry of foreign countries and worldwide, comply with

various certification standards and world-wide industry agreements, demonstrate technological and intellectual advances in evaluation and logistics.

Opportunity may come knocking on the door, but somebody knowledgeable and business-savvy should be on the other side of the door, ready to open it. The strength in getting what you want from the transaction is a combined skill of understanding the nature of the deal, laying out all the main aspects that have to be included and negotiation while keeping the return on investment for both parties favorable. This is the golden key that binds the investing party and the provider of the investment.

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Стратегічна оцінка інвестиційних критеріїв очима іноземного інвестора і необхідна тактика лісової промисловості України в напрямку інвестиційної привабливості

Для покращення інвестиційної привабливості і збільшення потоку іноземного капіталу, лісова промисловість України повинна запровадити наступні кроки: впровадження приваблюючих інвесторів, законів; розроблення структури менеджменту іноземних інвестицій, яка була б зрозуміла як вдома, так і за кордоном; рекламу інвестиційних об'єктів; забезпечення екологічно-безпечного інвестиційного клімату; відповідність світовим стандартам сертифікації; заохочення бізнес-турів і розвиток нових технологій.

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STATISTICAL SIMULATION FOR INFLUENCE OF WOOD CHARACTERISTICS ON PROPAGATION SPEED OF ULTRASONIC WAVES

The statistical simulation for propagation speed of ultrasonic waves in wood is presented in the article. The regression dependences for propagation speed of ultrasonic waves on physical characteristics of wood are obtained. The rotatable second order plan is used for statistical simulation.

Keywords: ultrasound, wood, temperature, humidity, statistical simulation.

Relevance of research. The modern development of controlling over physical and mechanical properties of wood is based on utilizing the nondestructive methods. One of them, namely the acoustic control, gained rapid development in last decade. Advantage of acoustic control is using the elastic waves, which parameters are closely related to thermophysical and mechanical properties of materials. This kind of control is appropriate for all materials that are good propagators for acoustic waves. Wood is one of such materials. At this time ultrasonic method (a kind of acoustic control) is mainly considered as a defectoscopy method. The suitability of using this method for defining the physical and mechanical properties of wood is proved in this paper. Regularities of experimental data are described on the base of regression analysis.

Analysis of known research results. Analysis of regularities in relations of VUWP to and mechanical properties of wood is presented in [3-11]. But it should be admitted that only partial dependencies $c = f(T, W, \alpha)$ are considered there. Particularly in [4-6] the experimental research was conducted for obtaining relations between velocity of ultrasonic wave propagation in wood and thermophysical properties of material $c = f(T, W)$, $c = f(\alpha)$, for fixed values of T, W , where c - velocity of ultrasonic waves