

AN EVALUATION OF TIMBER LOGISTICS IN TURKISH FORESTRY

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ABSTRACT

Logistics concerns the of business operations in order to maximize the total benefits. Besides the flow of material, especially the raw wood, personnel, machinery and information are important factors. In most of the industrialized country, the harvesting operations have been changed with the technological and occupational development around the world. Due to uncertainty in the wood supply, the logistical planning is needed to meet the wood demand.

A wood supply chain management perspective is important both detailed optimization of a transportation and general system optimization. It is known that the main forest product is the raw wood material in Turkish forestry. It is necessary that a planning for harvesting and transportation of the raw wood material from forest compartment to storage and from there to mill.

Optimal management of the forest, workforce, and machine force resources should be obtained by a logistical planning in timber harvesting and transportation systems. Besides, timber supply chains can be balanced according to supply and demand. Thus, timber harvesting and transportation costs, which influenced the cubic meter cost of timber, can be minimized. Thanks to that, the sustainable and tractable logistical planning of timber procurement can reduce environmental impacts of these operations.

In this study, a logistic of timber harvesting and transportation systems was examined in Turkish Forestry. The flowing of timber from stump to storage, and all treatments in harvesting and transportation process was examined to solve timber transportation planning problem.

Key Words: Timber logistics, Forest transportation, Turkish forestry.