

# NEW REDUCED IMPACT HARVESTING TECHNIQUES IN TURKISH FORESTRY

H. Hulusi ACAR  
[hlsacar@ktu.edu.tr](mailto:hlsacar@ktu.edu.tr)

Saliha ÜNVER  
[cansu@ktu.edu.tr](mailto:cansu@ktu.edu.tr)

\* Karadeniz Technical University (KTU), Faculty of Forestry, 61080, Trabzon, TURKEY

## Abstract

Forest harvesting activities are generally more expensive and difficult than any other forestry activities. Also, these activities can bring about important damages to environmentally restriction conditions such as samplings, forest soil, river. Because public concern to the visual and ecological effects of forest operation has increased in recent years, improving of environmental friendly harvesting techniques has considered important. Objective of this paper is to introduce three alternatives reduced impact harvesting techniques in Turkey known as chute system, monorail and controlled sliding. All of these systems which are portative and basic mechanism can be installed in short time. While the chute system and monorail are used to transporting of thin wood material, controlled sliding technique in polyethylene chutes is used to transporting of thick wood material such as logs and pole. Damages of harvesting activities to residual stand can be minimized by these methods.

**Key Words:** Environmental damage, Chute systems, Monorail, Harvesting operations, Turkish forestry