Abstract:

Suitability of Machinery Logging in Slovenian Forests

RQ: The purpose of the research was to examine how much Slovenian forest land is suitable for machine logging and harvesting of timber.
Purpose: To determine the actual potential of machinery logging in Slovenian forests.
Method: On the basis of Slovenian forest service cadastral maps from 2011, we assumed potential areas for machinery logging and harvesting of timber.
Results: In 2011, Slovenia cut about 3.9 million m³ of wood. Given the potential of Slovenian forests that amounts to 5.5 million m³ / year, it was determined that the percentage of machinery logging can significantly increase.
Organization: The research will have a significant impact on the management of organizations that are considering buying equipment for machinery logging.
Society: Society will be richer in knowing that there are opportunities in increasing contemporary technologies in Slovenian forests. With the realization that this type of technology is currently the safest form of work in forests, not only benefits favorable economic results, but also save many victims of accidents at work (in 2011 there were 21 deaths)
Originality: The study included the latest findings of modern technology for forest work.
Limitations: The greatest limitation is primarily in assessing the suitability of terrains.

Keywords: Forestry, machinery logging, safety of workers in the forest, contemporary technology in the forest, humanizing work, work ergonomics