

Recent Publications of the Forest Operations Group

Publications

Zamora, R., P. Adams, and J. Sessions. 2013. Ground-based thinning on steep slopes in Western Oregon: Soil compaction and disturbance effects. Accepted. *Western J. of Applied Forestry*.

Pilkerton, S.J., J. Sessions, and L.D. Kellogg. 2013. Development of efficient cutting patterns to maximize value with a log-allocation constraint. *Int. J. of Forest Engineering*, 24(1):42-52.

Long, J. and K. Boston. 2013. An evaluation of alternative measurement techniques for estimating the volume of logging residues. (In press). *Forest Science*.

Acuna, M. and J. Sessions. 2013. A simulated annealing algorithm to solve the log-truck scheduling problem. In: *Simulated Annealing: Strategies, Potential Uses and Advantages*. NOVA Science. (in press).

Ghajar, I., A. Najafi, S. A. Torabi, M. Khomehchiyan, K. Boston. 2013. An Adaptive Network-based fuzzy inference system for rock share estimation in forest road construction. (in press) *Croatian Journal of Forest Engineering*.

Ghaffariyan, M. R., J. Sessions, and M. Brown. 2013. Roadside chipping in a first thinning operation for radiata pine in South Australia. *Croatian J. of Forest Engineering* 34(1):91-101.

Sessions, J., K. Tuers, K. Boston, R. Zamora and R. Anderson. 2013. Pricing Forest Biomass for Power Generation. *Western J. of Applied Forestry* 28(2):51-56.

Zamora, R., J. Sessions, G. Murphy and K. Boston. 2013. Economic impact of truck-machine interference in forest biomass recovery operations on steep terrain. *Forest Products Journal* 63(56):162-173. Published online October 2013. (doi: 10.13073/FPJ-D-13-00031)

Zamora, R., K. Boston, J. Sessions, and G. Murphy. 2013. Stochastic simulation and optimization of mobile chipping economics in processing and transport of forest biomass from residues. In press. *Silva Fennica*.

Hayati, E., B. Majnounian, E. Abdi, J. Sessions, and M. Makhdom. 2013. An expert-based approach in forest road network planning by combining Delphi and Spatial Multi-Criteria Evaluation. *Environmental Modeling and Assessment* 185(2):1767-1776.

Ghaffariyan, M.R., Sessions, J. and M. Brown. 2013. Road side chipping with Morbark chipper. Accepted. *Croatian Journal of Forest Engineering*.

Beck, S. and J. Sessions. 2013. Forest road access decisions for woods chip trailers using Ant Colony Optimization and breakeven analysis. *Croatian J. of Forest Engineering* 34(2):201-215.

Ghaffariyan, M. R., J. Sessions, and M. Brown. 2012. Evaluating productivity, cost, chip quality and biomass recovery for a mobile chipper in Australian roadside chipping operations. *J. of Forest Science* 58(12): 530–535, Czech Academy of Agricultural Sciences.

Ghaffariyan, M. R., J. Sessions, and M. Brown. 2012. Machine productivity and residual harvesting residues associated with a cut-to-length harvest system in southern Tasmania. *Southern Forests* 74(4): 229–235

Chung, W., D. Dykstra, S. O'Brien, R. Abt, and J. Sessions. 2012. User's Guide to SNAP for ArcGIS. USDA Forest Service, PNW Station, Gen. Tech. Report. PNW-GTR-847.