

Supplementary file S1

Pairwise comparisons of total time demand for each work element (Table 5) between the *conventional* system (chainsaw) and the *new* system ('Spacer') of tending young stands of Douglas fir. Two subcycles are shown – *pruning* and *removal*.

subcycle	work element	estimate	Std. Error	Df	t-ratio	P-value
<i>pruning</i>	<i>search</i>	0.373	0.0755	1,081	4.94	<0.001
	<i>cutting</i>	0.273	0.0734	1,081	3.73	<0.001
	<i>marking</i>	0.146	0.0794	1,081	1.84	0.067
<i>removal</i>	<i>search</i>	-0.178	0.0904	617	-1.97	0.049
	<i>saw work</i>	-0.317	0.0886	617	-3.57	<0.001