

Supplementary file S2

Summary of total time demand for two subcycles: *pruning* and *removal* of young Douglas fir. Within the *conventional* system, a handsaw (*pruning*) and a chainsaw (*removal*) were used, whereas an electric pruning shears and the ‘Spacer’ were used in the *new* system. Presented are the number of observations (n), mean values, standard deviation (SD) and extreme values (min., max.) for each subcycle, element (Table 5) and system.

Subcycle	work element	system	n	mean	SD	min.	max.
<i>pruning</i>	<i>search</i>	<i>conventional</i>	191	2.90	1.28	0.083	6.83
		<i>new</i>	198	2.59	0.96	0.483	7.83
	<i>cutting</i>	<i>conventional</i>	189	1.68	0.99	0.067	5.45
		<i>new</i>	183	1.33	0.92	0.050	5.62
	<i>marking</i>	<i>conventional</i>	189	0.56	0.33	0.017	2.39
		<i>new</i>	150	0.42	0.23	0.017	1.23
<i>removal</i>	<i>search</i>	<i>conventional</i>	158	0.57	0.47	0.017	2.62
		<i>new</i>	152	0.77	0.69	0.017	4.41
	<i>saw work</i>	<i>conventional</i>	161	0.82	0.71	0.017	5.07
		<i>new</i>	159	1.10	1.30	0.083	7.50