

The effect of prolonged stratification and shading on emergence of *Pseudotsuga menziesii* (Mirb.) Franco seedlings

Supplementary Material

Table A1. Results of statistical tests (F-value and p-value) for parameters of seed germination

Parameter	Germination capacity of full seeds		The germination energy of the full seeds		Synchronization index	
	F	p	F	p	F	p
Repetition	0.827	0.568	0.024	0.876	1.191	0.317
Treatment	196.347	0.000	709.689	0.000	215.977	0.000
Seed lot	42.103	0.000	104.260	0.000	71.055	0.000
Treatment*Seed lot	5.771	0.000	33.218	0.000	20.466	0.000

Table A2. Results of statistical tests (F-value and p-value) for emergence, morphological parameters and biomass of seedlings

Parameter	Seed lot									
	I		II		III		IV		V	
	F	p	F	p	F	p	F	p	F	p
Emergence										
Treatment	14.460	0.001	7.326	0.003	19.401	0.000	3.198	0.057	37.145	0.000
Shading	1.935	0.177	4.994	0.033	7.053	0.013	2.773	0.107	5.576	0.026
Treatment*Shading	1.239	0.277	0.713	0.406	16.431	0.000	1.560	0.222	2.137	0.155
The length of the above-ground part										
Treatment	4.275	0.039	75.722	0.000	189.870	0.000	62.733	0.000	61.59	0.000
Shading	458.783	0.000	236.732	0.000	8.883	0.003	57.986	0.000	113.80	0.000
Treatment*Shading	1.949	0.164	1.768	0.184	6.040	0.014	5.081	0.025	54.69	0.000
The length of the root system										
Treatment	161.170	0.000	29.650	0.000	61.240	0.000	37.850	0.000	14.890	0.000
Shading	109.220	0.000	58.896	0.000	83.750	0.000	139.580	0.000	62.200	0.000
Treatment*Shading	20.180	0.000	1.747	0.187	24.610	0.000	72.650	0.000	42.770	0.000
Biomass	Dry matter of aboveground part (I–V)					Dry matter of root system (I–V)				
	F		p		F		p			
Treatment	77.902		0.000		49.820		0.000			
Shading	5.482		0.030		1.513		0.234			
Treatment*Shading	7.826		0.012		10.991		0.003			