

6 **Supplementary Table S2**

7 A four-way analysis of variance of the factors affecting the percentage of leaf senescence and CCI senescence in seedlings of four
8 subtropical tree species in a factorial experiment addressing the effects of the air temperature (T), photoperiod (P), and soil moisture
9 (SM). The time lapsed from the start of the experiment is included as an additional explaining factor in the analysis.

Treatment	<i>Carya illinoensis</i>		<i>Cerasus serrulata</i>		<i>Liriodendron chinense</i>		<i>Sassafras tzumu</i>	
	F	<i>P</i>	F	<i>P</i>	F	<i>P</i>	F	<i>P</i>
Leaf senescence								
Time	262.530	<0.001	747.1	<0.001	531.881	<0.001	652.900	<0.001
T	1.109	0.296	0.157	0.693	99.200	<0.001	0.108	0.744
P	0.446	0.506	2.922	0.092	15.074	<0.001	10.663	0.00167**
SM	4.092	0.0468*	0.262	0.610	4.604	0.0353*	2.165	0.146
Time *T	160.200	<0.001	8.016	0.006**	98.816	<0.001	0.956	0.332
Time *P	0.590	0.445	0.376	0.542	9.443	0.003**	9.765	0.0026**
T*P	0.029	0.866	0.068	0.796	4.006	0.0475*	0.018	0.892
Time *SM	3.970	0.050	0.017	0.897	3.379	0.070	0.253	0.616
T*SM	4.145	0.0454*	0.131	0.719	2.410	0.125	1.500	0.225
P*SM	0.044	0.835	0.852	0.359	0.373	0.544	0.740	0.392
Time *T*P	0.084	0.772	1.501	0.225	5.507	0.0217*	0.157	0.693
Time *T*SM	1.432	0.235	0.160	0.691	1.733	0.192	0.066	0.798
Time *P*SM	0.255	0.615	0.394	0.532	0.347	0.558	0.122	0.728
T*P*SM	0.139	0.710	0.0001	0.983	0.146	0.704	0.122	0.728
Time*T*P*SM	0.055	0.816	0.253	0.617	0.37	0.575	0.013	0.909
CCI senescence								
Time	112.736	<0.001	183.911	<0.001	335.066	<0.001	144.503	<0.001
T	36.437	<0.001	9.472	0.0038*	136.206	<0.001	19.065	<0.001
P	0.336	0.566	0.512	0.478	3.411	0.074	11.408	0.00194**
SM	5.432	0.0249*	0.152	0.699	3.644	0.0653	0.658	0.423
Time *T	40.915	<0.001	1.585	0.215	74.024	<0.001	11.281	0.00203**
Time *P	0.259	0.6136	0.062	0.804	7.292	0.011*	16.578	<0.001
T*P	0.201	0.656	0.075	0.786	6.979	0.0127*	0.080	0.779
Time *SM	6.426	0.0153*	0.057	0.812	3.678	0.0641	0.892	0.352
T*SM	1.621	0.2103	0.0102	0.751	10046	0.314	1.560	0.220
P*SM	0.046	0.8311	0.007	0.933	0.404	0.529	0.317	0.577
Time *T*P	0.115	0.7365	0.040	0.842	3.557	0.068	0.137	0.714
Time *T*SM	2.843	0.0995	0.019	0.892	2.485	0.125	4.590	0.0399*
Time *P*SM	0.055	0.816	0.094	0.761	0.407	0.528	0.025	0.876
T*P*SM	0.007	0.934	0.861	0.359	0.06	0.808	1.859	0.182
Time*T*P*SM	0.004	0.949	0.156	0.695	0.035	0.853	4.630	0.0391*

10 The values shown are the F-statistics of the analysis of variance (ANOVA). ****P* < 0.001; ***P* < 0.01; **P* < 0.05. *P*-values in bold are significant
11 at *P* < 0.05.