

**Table S2.** Dimensions of *Pinus densiflora* bolts used to rear offspring of *Monochamus alternatus alternatus* (T) and *M. a. endai* (J) female adults that had experienced different types of mating in Experiments 2 and 3 in order to assess the second male sperm precedence ( $P_2$  value).

Experiment	Type of mating (female × male)	Pine bolts used to rear offspring			
		Number	Length (cm)	Diameter (cm)	Bark surface area (cm <sup>2</sup> )
2	T × T	40	15.0 ± 0.1	5.90 ± 0.22	277.6 ± 10.5
	T × J after mating with a T male <sup>1</sup>	40	15.0 ± 0.1	5.87 ± 0.23	277.1 ± 10.8
	T × J after mating with a T male <sup>2</sup>	37	15.0 ± 0.1	5.48 ± 0.22	258.5 ± 10.8
	T × J	36	15.1 ± 0.1	5.90 ± 0.25	279.6 ± 12.0
	J × J	36	15.0 ± 0.1	5.89 ± 0.24	277.7 ± 11.2
	Total	189	15.0 ± 0.0	5.81 ± 0.10	274.2 ± 4.9
	Bartlett's test				
	$\chi^2$ value (df =4)		3.02	0.41	0.41
	<i>p</i> value		0.554	0.982	0.982
	One-way ANOVA				
	<i>F</i> value (df = 4, 184)		0.27	0.62	0.62
	<i>p</i> value		0.896	0.649	0.649
3	T × T	31	15.0 ± 0.1	4.94 ± 0.47	231.9 ± 22.1
	T × J after mating with a T male <sup>1</sup>	31	14.9 ± 0.1	4.94 ± 0.47	230.1 ± 21.7
	T × J	31	15.0 ± 0.1	4.89 ± 0.46	231.3 ± 22.0
	J × J	31	15.0 ± 0.1	4.79 ± 0.43	224.4 ± 20.0
	Total	124	15.0 ± 0.0	4.89 ± 0.23	229.4 ± 10.7

<b>Bartlett's test</b>				
$\chi^2$ value (df =3)		3.62	0.36	0.36
<i>p</i> value		0.306	0.948	0.948
<b>One-way ANOVA</b>				
<i>F</i> value (df = 3, 120)		0.96	0.02	0.03
<i>p</i> value		0.416	0.996	0.995

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<sup>1</sup> Pine bolts were used to rear offspring produced by T females 1–7 or 1–8 days after remating with a J male.

<sup>2</sup> Pine bolts were used to rear offspring produced by T females 20–37 days after remating with a J male.