

**Supplementary Material:** Sarauer LJ, Coleman DM (2019) Douglas-fir seedling quality in biochar-amended peat substrates. *Reforesta* 7: 1-14.

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Table 1. Index of Injury (IT) at -7°C (IT7), -14°C (IT14), -21°C (IT21), -28°C (IT28), -35°C (IT35), and -40°C (IT40) of Douglas-fir seedling needles in response to biochar pretreatment type, biochar rate, or fertilizer rate. Numbers within the parentheses represent standard error, n=36 biochar pretreatment type, n=24 biochar rate, and n=24 fertilizer rate.

Treatment	I <sub>7</sub>	I <sub>14</sub>	I <sub>21</sub>	I <sub>28</sub>	I <sub>35</sub>	I <sub>40</sub>
<b>Biochar Pretreatment Type</b>						
<b>Pre-treated</b>	0.05 (0.46)	3.31 (0.53)	7.77 (1.01)	12.52 (1.25)	16.31 (1.39)	17.15 (1.18)
<b>Untreated</b>	0.00 (0.00)	3.35 (1.04)	5.97 (0.83)	12.09 (1.14)	16.13 (1.29)	18.52 (1.31)
<b>Biochar Rate</b>						
<b>0%</b>	0.41 (0.73)	5.11 (1.59)	10.11 (1.30)	18.35 (1.62)	23.49 (1.45)	23.76 (1.50)
<b>25%</b>	0.031 (0.32)	2.73 (0.36)	5.30 (0.59)	8.16 (0.75)	11.23 (1.00)	13.76 (0.86)
<b>50%</b>	0.00 (0.00)	2.15 (0.51)	5.21 (1.13)	10.41 (0.92)	13.93 (1.19)	15.99 (1.32)
<b>Fertilizer Rate</b>						
<b>¼</b>	0.00 (0.00)	3.85 (1.54)	6.12 (1.20)	13.61 (1.50)	16.99 (1.62)	18.41 (1.46)
<b>½</b>	0.00 (0.00)	3.23 (0.69)	7.27 (1.23)	11.93 (1.45)	16.51 (1.79)	18.86 (1.47)
<b>Full</b>	0.35 (0.30)	2.91 (0.51)	7.23 (1.00)	11.38 (1.44)	15.17 (1.51)	16.24 (1.63)