

**Table 20.3** Parameter values for *Picea* and *Fagus*

Parameter	unit	<i>Picea</i>	<i>Fagus</i>	References
$k_{\text{ext}}$	[-]	0.50	0.65	Bossel (1996),Hoffman (1995)
SLA	[cm <sup>2</sup> g <sup>-1</sup> ]	39.0	18.9	data sites
RUE	[g (dw) MJ <sup>-1</sup> ]	1.9	1.9	derived Monteith (1977), Cannell et al. (1987), Cannell (1989)
$T_{\text{min}}$	[°C]	-4	-1	Bossel (1996),Hoffman (1995)
$T_{\text{opt1}}$	[°C]	10	15	Bossel (1996),Hoffman (1995)
$T_{\text{opt2}}$	[°C]	26	25	Bossel (1996),Hoffman (1995)
$T_{\text{max}}$	[°C]	40	40	Bossel (1996),Hoffman (1995)
$\beta$	[-]	0.70	0.70	Goudriaan and Unsworth (1990)
$n_{\text{c,max-leaf}}$	[mg g <sup>-1</sup> ]	22.0	40.0	estimate
$n_{\text{c,min-leaf}}$	[mg g <sup>-1</sup> ]	6.5	9.3	data sites
$n_{\text{c-branch}}$	[mg g <sup>-1</sup> ]	4.6	4.0	data sites
$n_{\text{c-stem}}$	[mg g <sup>-1</sup> ]	1.1	1.1	data sites
$N_{\text{c-roots}}$	[mg g <sup>-1</sup> ]	0.8	0.2	data sites
$n_{\text{c-fine roots}}$	[mg g <sup>-1</sup> ]	12.5	12.5	data sites
SRL	[m g <sup>-1</sup> ]	14.5	12.6	data sites
$k_{\text{rf}}$	[-]	0.95	0.93	Jackson et al. (1996)
$\text{Age}_{\text{max-leaf}}$	[day]	3880	200	estimate
$\text{Age}_{\text{max-fine roots}}$	[day]	300	300	estimate
$k_{\text{m-branch}}$	[yr <sup>-1</sup> ]	0.004 0	0.0014	derived De Vries et al. (1990)
$k_{\text{m-stem}}$	[yr <sup>-1</sup> ]	0	0	assumption
max fraction of N reallocated - leaf	[-]	0.3	0.55	estimate Chapin and Kedrowski (1983), Del Arco et al. (1991), Killingbeck (1996)
max fraction of N reallocated – fine roots	[-]	0.2	0.2	estimate Chapin and Kedrowski (1983), Del Arco et al. (1991), Killingbeck (1996)
$\text{IC}_{\text{max}}$	[-]	0.30	0.20	Ward (1975)