

**Table 5.6:** Amount of live fine-roots (biomass; < 1 mm in diameter; [g m<sup>-2</sup>]), length [m m<sup>-2</sup>] and specific root length [m g<sup>-1</sup>] at different European forest sites as estimated in the total soil cores in 0-40 cm soil depth. For Aubure where soil cores were taken at different sampling dates, data from root windows are given for comparison. Data from root windows (with SE in parentheses) are growth increments of higher order lateral roots at the root window surface in the time period between the last and the current sampling [mm (m window surface)<sup>-2</sup> day<sup>-1</sup>] and the calculated biomass production rate per day ([g m<sup>-2</sup> day<sup>-1</sup>]; for calculations see text).

	Data from soil coring			Data from root windows	
	Biomass	Root length	Specific root length	Root length increments	Biomass production rate
	[g m <sup>-2</sup> ]	[m m <sup>-2</sup> ]	[m g <sup>-1</sup> ]	[mm (m window surface) <sup>-2</sup> day <sup>-1</sup> ]	[g m <sup>-2</sup> day <sup>-1</sup> ]
<i>Aubure - Fagus sylvatica</i>					
May 1996	103	1256	15.0		
Jul. 1996	43	909	20.9	10.1 (2.6)	5.0 (1.3)
Sep. 1996	126	1410	11.6	16.1 (4.9)	8.0 (2.4)
Oct. 1996	83	1724	21.4	7.7 (2.0)	3.8 (1.0)
May 1997	84	1991	25.9		
<i>Aubure - Picea abies</i>					
May 1996	70	672	10.3		
July 1996	63	560	9.3	2.1 (0.4)	1.4 (0.3)
Sep. 1996	56	558	11.4	3.1 (0.1)	2.1 (0.6)
Oct. 1996	48	703	15.2	1.7 (0.1)	1.1 (0.4)
May 1997	57	689	14.0		
<i>Schacht – Fagus sylvatica</i>					
May 1997	207	5064	25.0		
<i>Waldstein – Picea abies</i>					
May 1997	106	1869	18.9		