

Plot	Compartment	Biomass pools (tDMha <sup>-1</sup> )	Biomass increment (tDMha <sup>-1</sup> yr <sup>-1</sup> )	Si content (g kg <sup>-1</sup> )	Si pools (kg ha <sup>-1</sup> )	Si fluxes (kg ha <sup>-1</sup> yr <sup>-1</sup> )
Dystric Cambisol	Leaves	3.8 (0.4) <sup>a</sup>	3.8 (0.4) <sup>a</sup>	11.3 (1.8) <sup>b</sup>	42.7 (4.3) <sup>b</sup>	42.7 (4.3) <sup>b</sup>
	Branches/twigs with bark	0.3 (0.2) <sup>a</sup>	0.3 (0.2) <sup>a</sup>	1.1 (0.3) <sup>a</sup>	0.3 (0.2) <sup>a</sup>	0.3 (0.2) <sup>a</sup>
	Buds, beechnuts, fruit capsules	1.1 (1.1) <sup>a</sup>	1.1 (1.1) <sup>a</sup>	2.4 (1.0) <sup>a</sup>	1.8 (0.9) <sup>a</sup>	1.8 (0.9) <sup>a</sup>
	<b>Total litterfall</b>	<b>5.2 (1.1)<sup>a</sup></b>	<b>5.2 (1.1)<sup>a</sup></b>		<b>44.8 (5.1)<sup>b</sup></b>	<b>44.8 (5.1)<sup>b</sup></b>
	Organic horizons	11.5 (2.0) <sup>a</sup>		21.4 (1.6) <sup>a</sup>	246.4 (53.1) <sup>a</sup>	
	Small wood	7.5 (1.9) <sup>a</sup>		0.8 (0.3) <sup>a</sup>	6.5 (3.5) <sup>a</sup>	
	<b>Forest floor</b>	<b>19.0 (2.7)<sup>a</sup></b>			<b>252.9 (53.1)<sup>a</sup></b>	
	Stem bark	5.5 (0.7) <sup>a</sup>	0.5 (0.0) <sup>b</sup>	1.70 (0.33) <sup>a</sup>	9.4 (1.2) <sup>a</sup>	0.65 (0.03) <sup>b</sup>
	Stem wood	84.8 (11.7) <sup>ab</sup>	6.4 (0.3) <sup>b</sup>	0.05 (0.00) <sup>a</sup>	4.0 (0.5) <sup>a</sup>	0.30 (0.02) <sup>a</sup>
	Small branches (B + W)	18.7 (2.5) <sup>ab</sup>	1.2 (0.1) <sup>b</sup>	0.40 (0.05) <sup>a</sup>	7.4 (1.0) <sup>a</sup>	0.49 (0.03) <sup>b</sup>
	Medium branches (B + W)	10.2 (1.8) <sup>ab</sup>	1.1 (0.1) <sup>b</sup>	0.26 (0.04) <sup>a</sup>	2.6 (0.5) <sup>ab</sup>	0.29 (0.02) <sup>b</sup>
	Coarse branches (B + W)	5.1 (1.1) <sup>ab</sup>	0.8 (0.1) <sup>ab</sup>	0.13 (0.04) <sup>a</sup>	0.7 (0.1) <sup>ab</sup>	0.10 (0.01) <sup>b</sup>
	<b>Above-ground biomass</b>	<b>125.8 (17.9)<sup>ab</sup></b>	<b>10.0 (0.5)<sup>b</sup></b>		<b>24.1 (3.3)<sup>ab</sup></b>	<b>1.82 (0.10)<sup>b</sup></b>
	Fine roots (0–10 cm)	3.2 (0.8) <sup>a</sup>	3.5 (0.9) <sup>a</sup>	12.8 (2.3) <sup>b</sup>	39.5 (7.5) <sup>a</sup>	43.9 (8.3) <sup>a</sup>
	Fine roots (10–30 cm)	2.9 (1.1) <sup>a</sup>	3.2 (1.2) <sup>a</sup>	15.0 (2.3) <sup>c</sup>	43.9 (6.6) <sup>b</sup>	48.8 (7.3) <sup>b</sup>
	Fine roots (30–60 cm)	0.9 (0.6) <sup>a</sup>	1.0 (0.7) <sup>a</sup>	12.3	10.5	11.7
	Fine roots (60–90 cm)	0.4 (0.1) <sup>a</sup>	0.4 (0.1) <sup>a</sup>	12.7	4.7	5.2
	<b>Total fine roots (0–90 cm)</b>	<b>7.3 (1.8)<sup>a</sup></b>	<b>8.0 (2.0)</b>		<b>98.7 (13.5)<sup>b</sup></b>	<b>109.5 (15.0)<sup>b</sup></b>
	<b>Total coarse roots</b>	<b>24.4 (3.5)<sup>a</sup></b>	<b>2.83 (0.47)<sup>a</sup></b>	0.11 (0.15) <sup>a</sup>	<b>2.66 (0.39)<sup>b</sup></b>	<b>0.31 (0.05)<sup>b</sup></b>
	Exploitation residues AG		1.3	0.33		0.42
	Exploitation residues BG		1.1	0.11 (0.15) <sup>a</sup>		0.12
	<b>Total exploitation residues</b>		<b>2.4</b>			<b>0.54</b>
	Harvests		4.4	0.16		0.71
Eutric Cambisol	Leaves	4.1 (0.5) <sup>a</sup>	4.1 (0.5) <sup>a</sup>	8.9 (1.6) <sup>ab</sup>	35.4 (2.8) <sup>ab</sup>	35.4 (2.8) <sup>ab</sup>
	Branches/twigs with bark	0.6 (0.4) <sup>a</sup>	0.6 (0.4) <sup>a</sup>	0.9 (0.2) <sup>a</sup>	0.4 (0.2) <sup>a</sup>	0.4 (0.2) <sup>a</sup>
	Buds, beechnuts, fruit capsules	1.3 (1.1) <sup>a</sup>	1.3 (1.1) <sup>a</sup>	3.4 (1.9) <sup>a</sup>	3.0 (0.5) <sup>b</sup>	3.0 (0.5) <sup>b</sup>
	<b>Total litterfall</b>	<b>6.0 (1.1)<sup>a</sup></b>	<b>6.0 (1.1)<sup>a</sup></b>		<b>38.7 (3.1)<sup>ab</sup></b>	<b>38.7 (3.1)<sup>ab</sup></b>
	Organic horizons	9.6 (1.4) <sup>a</sup>		17.6 (0.8) <sup>a</sup>	174.2 (32.8) <sup>ab</sup>	
	Small wood	2.6 (1.2) <sup>a</sup>		1.8 (1.1) <sup>a</sup>	3.9 (1.3) <sup>a</sup>	
	<b>Forest floor</b>	<b>12.5 (0.6)<sup>a</sup></b>			<b>178.1 (32.6)<sup>ab</sup></b>	
	Stem bark	6.1 (0.2) <sup>a</sup>	0.4 (0.0) <sup>ab</sup>	1.53 (0.28) <sup>a</sup>	9.3 (0.3) <sup>a</sup>	0.39 (0.04) <sup>a</sup>
	Stem wood	109.9 (3.8) <sup>b</sup>	5.0 (0.6) <sup>ab</sup>	0.05 (0.00) <sup>a</sup>	5.1 (0.2) <sup>a</sup>	0.23 (0.02) <sup>a</sup>
	Small branches (B + W)	20.8 (0.7) <sup>b</sup>	0.8 (0.1) <sup>ab</sup>	0.38 (0.08) <sup>a</sup>	7.9 (0.3) <sup>a</sup>	0.31 (0.04) <sup>ab</sup>
	Medium branches (B + W)	15.2 (0.6) <sup>b</sup>	1.0 (0.1) <sup>ab</sup>	0.23 (0.05) <sup>a</sup>	3.5 (0.1) <sup>b</sup>	0.23 (0.02) <sup>ab</sup>
	Coarse branches (B + W)	9.8 (0.6) <sup>b</sup>	0.9 (0.1) <sup>b</sup>	0.10 (0.03) <sup>a</sup>	1.0 (0.1) <sup>b</sup>	0.09 (0.01) <sup>ab</sup>
	<b>Above-ground biomass</b>	<b>164.2 (5.7)<sup>b</sup></b>	<b>8.0 (0.9)<sup>ab</sup></b>		<b>26.9 (0.9)<sup>b</sup></b>	<b>1.25 (0.13)<sup>ab</sup></b>
	Fine roots (0–10 cm)	4.6 (2.1) <sup>a</sup>	5.1 (2.4) <sup>a</sup>	9.6 (2.9) <sup>ab</sup>	44.5 (13.9) <sup>a</sup>	49.4 (15.4) <sup>a</sup>
	Fine roots (10–30 cm)	4.5 (1.8) <sup>a</sup>	5.0 (1.9) <sup>a</sup>	8.2 (1.6) <sup>b</sup>	37.0 (7.1) <sup>b</sup>	41.1 (7.8) <sup>b</sup>
	Fine roots (30–60 cm)	1.2 (0.7) <sup>a</sup>	1.3 (0.8) <sup>a</sup>	7.5	8.7	9.7
	Fine roots (60–90 cm)	0.4 (0.1) <sup>a</sup>	0.5 (0.1) <sup>a</sup>	–	–	–
	<b>Total fine roots (0–90 cm)</b>	<b>10.6 (4.1)<sup>a</sup></b>	<b>11.7 (4.5)</b>		<b>90.2 (20.8)<sup>b</sup></b>	<b>100.1 (23.1)<sup>b</sup></b>
	<b>Total coarse roots</b>	<b>32.3 (1.2)<sup>b</sup></b>	<b>4.08 (0.16)<sup>b</sup></b>	0.05 (0.08) <sup>a</sup>	<b>1.51 (0.05)<sup>a</sup></b>	<b>0.19 (0.01)<sup>a</sup></b>
	Exploitation residues AG		1.4	0.31		0.43
	Exploitation residues BG		1.4	0.05 (0.08) <sup>a</sup>		0.06
	<b>Total exploitation residues</b>		<b>2.8</b>			<b>0.50</b>
	Harvests		4.9	0.15		0.72
: Rendzic Leptosol	Leaves	4.0 (0.4) <sup>a</sup>	4.0 (0.4) <sup>a</sup>	5.6 (1.3) <sup>a</sup>	22.2 (3.1) <sup>a</sup>	22.2 (3.1) <sup>a</sup>
	Branches/twigs with bark	0.5 (0.3) <sup>a</sup>	0.5 (0.3) <sup>a</sup>	0.7 (0.1) <sup>a</sup>	0.3 (0.2) <sup>a</sup>	0.3 (0.2) <sup>a</sup>
	Buds, beechnuts, fruit capsules	1.2 (0.9) <sup>a</sup>	1.2 (0.9) <sup>a</sup>	3.2 (1.6) <sup>a</sup>	2.6 (0.5) <sup>ab</sup>	2.6 (0.5) <sup>ab</sup>
	<b>Total litterfall</b>	<b>5.7 (1.0)<sup>a</sup></b>	<b>5.7 (1.0)<sup>a</sup></b>		<b>25.2 (3.4)<sup>a</sup></b>	<b>25.2 (3.4)<sup>a</sup></b>
	Organic horizons	8.8 (1.5) <sup>a</sup>		16.9 (1.4) <sup>a</sup>	151.3 (22.6) <sup>b</sup>	
	Small wood	1.9 (2.4) <sup>a</sup>		1.3 (0.7) <sup>a</sup>	4.4 (5.7) <sup>a</sup>	
	<b>Forest floor</b>	<b>10.9 (2.8)<sup>a</sup></b>			<b>154.3 (25.3)<sup>a</sup></b>	
	Stem bark	6.8 (0.6) <sup>a</sup>	0.3 (0.0) <sup>a</sup>	1.34 (0.27) <sup>a</sup>	9.1 (0.8) <sup>a</sup>	0.41 (0.05) <sup>ab</sup>
	Stem wood	80.1 (8.3) <sup>a</sup>	3.9 (0.5) <sup>a</sup>	0.06 (0.03) <sup>a</sup>	5.0 (0.5) <sup>a</sup>	0.24 (0.03) <sup>a</sup>
	Small branches (B + W)	15.0 (1.4) <sup>a</sup>	0.6 (0.1) <sup>a</sup>	0.29 (0.04) <sup>a</sup>	4.3 (0.4) <sup>a</sup>	0.18 (0.02) <sup>a</sup>
	Medium branches (B + W)	8.6 (1.4) <sup>a</sup>	0.6 (0.1) <sup>a</sup>	0.19 (0.03) <sup>a</sup>	1.6 (0.3) <sup>a</sup>	0.11 (0.02) <sup>a</sup>
	Coarse branches (B + W)	4.6 (1.0) <sup>a</sup>	0.4 (0.1) <sup>a</sup>	0.10 (0.03) <sup>a</sup>	0.5 (0.1) <sup>a</sup>	0.04 (0.01) <sup>a</sup>
	<b>Above-ground biomass</b>	<b>115.2 (12.8)<sup>a</sup></b>	<b>5.8 (0.8)<sup>a</sup></b>		<b>20.5 (2.1)<sup>a</sup></b>	<b>0.98 (0.13)<sup>a</sup></b>
	Fine roots (0–10 cm)	5.1 (1.4) <sup>a</sup>	5.6 (1.6) <sup>a</sup>	7.8 (2.2) <sup>a</sup>	43.5 (14.1) <sup>a</sup>	48.3 (15.6) <sup>a</sup>
	Fine roots (10–30 cm)	3.6 (1.6) <sup>a</sup>	4.0 (1.8) <sup>a</sup>	4.9 (0.8) <sup>a</sup>	17.6 (3.0) <sup>a</sup>	19.6 (3.3) <sup>a</sup>
	Fine roots (30–60 cm)	NS	NS	–	–	–
	Fine roots (60–90 cm)	NS	NS	–	–	–
	<b>Total fine roots (0–30 cm)</b>	<b>8.7 (3.0)<sup>a</sup></b>	<b>9.6 (3.3)</b>		<b>61.2 (16.0)<sup>a</sup></b>	<b>67.9 (17.7)<sup>a</sup></b>
	<b>Total coarse roots</b>	<b>26.0 (3.0)<sup>a</sup></b>	<b>3.09 (0.44)<sup>a</sup></b>	0.06 (0.05) <sup>a</sup>	<b>1.62 (0.19)<sup>a</sup></b>	<b>0.19 (0.03)<sup>a</sup></b>
	Exploitation residues AG		1.1	0.24		0.27
	Exploitation residues BG		1.0	0.06 (0.05) <sup>a</sup>		0.06
	<b>Total exploitation residues</b>		<b>2.1</b>			<b>0.33</b>
	Harvests		3.9	0.15		0.57