

**Table 2.10** Mean ecosystem C and N pools in the NIPHYS/CANIF transect through Europe. C concentration taken as 48 % of dry wt in plant matter. At Åhe data include *P. abies*, *P. sylvestris* and *B. pendula*. Branch biomass for Gri and Sch estimated from a regression of branch biomass against stem biomass of the other *Fagus* sites. Coarse roots include stump. Stump biomass for AuF, Gri and Sko estimated from a regression of stump biomass against stem biomass for the other *Fagus* and *Picea* sites. Fine roots are here defined as <2mm diam. in the upper 30 cm of the soil profile. Data were extrapolated for some sites from fine-root data of other diameter classes or depths. For AuP and AuF the available fine root biomass for <1mm was extrapolated to a fine root biomass for <2mm using the biomass ratio of <1mm to <2mm at Nac, Sch and Wal. The fine-root biomass <2mm at Nac for 0-15 cm depth was recalculated to 0-30 cm depth using the ratio of fine-root biomass of 0-20 cm depth to that at 0-30 cm depth at AuP, AuF, Sch, Sko and Wal. The fine root biomass <5mm at Col and MdM at 80-cm depth was recalculated using the ratio of fine roots <2mm to fine roots <5mm at Wal assuming all fine roots <2mm to be in the upper 30 cm of the soil profile. For Gri, Jez and Åhe no fine root data were available. For these sites the average of the other sites, per tree species, were used. Further explanations in Table 2.1. Data of NPP<sub>C</sub> and NPP<sub>N</sub> are listed in Tab. 3.3 and 3.4 of Chapter 3.

	Category	Åhe	Sko	Gri	Nac	Jez	Wal	Sch	AuP	AuF	Col	MdM
C (t ha <sup>-1</sup> )	Leaves	4	7	2	6	2	8	2	4	2	1	8
	Branches	14	11	29	11	19	15	22	9	23	15	8
	Stem	56	41	128	56	77	93	107	112	98	84	63
	Coarse roots	20	13	34	29	23	36	26	21	26	24	25
	Fine roots	2.7	2.6	1.4	0.6	1.4	0.9	1.2	0.4	0.7	2.4	1.4
	Total plant	97	74	194	103	122	152	158	147	150	125	106
	Soil OM	55	132	92	170	100	202	164	54	94	228	*175
	<i>Total</i>	<i>152</i>	<i>206</i>	<i>284</i>	<i>273</i>	<i>222</i>	<i>355</i>	<i>322</i>	<i>201</i>	<i>244</i>	<i>355</i>	<i>281</i>
	% in plants	64	36	68	38	55	43	49	73	61	35	38
N (t ha <sup>-1</sup> )	Leaves	0.09	0.17	0.13	0.20	0.04	0.24	0.09	0.13	0.08	0.07	0.15
	Branches	0.14	0.11	0.24	0.18	0.28	0.14	0.18	0.06	0.14	0.07	0.04
	Stem	0.13	0.10	0.30	0.17	0.20	0.22	0.25	0.28	0.28	0.13	0.08
	Coarse roots	0.05	0.04	0.11	0.10	0.08	0.12	0.09	0.07	0.09	0.08	0.08
	Fine roots	0.08	0.05	0.04	0.02	0.03	0.02	0.03	0.01	0.02	0.06	0.04
	Total plant	0.48	0.48	0.82	0.67	0.62	0.74	0.64	0.55	0.61	0.41	0.39
	Soil OM	2.08	5.40	4.35	6.83	4.98	8.40	7.80	3.33	4.90	18.05	17.68
	<i>Total</i>	<i>2.56</i>	<i>5.88</i>	<i>5.04</i>	<i>7.50</i>	<i>5.60</i>	<i>9.14</i>	<i>8.44</i>	<i>3.88</i>	<i>5.52</i>	<i>18.46</i>	<i>18.07</i>
	% in plants	19	8	16	9	11	8	8	14	11	2	2

\* denotes a value at MdM corrected from Table 2.8 (see text).