

**Table 11.2:** Mean residence times [years] of carbon in organic matter of fresh tree litter input and in the individual soil layers at each of the forest sites derived, using the model described above.

Forest	Tree litter input AGE <sub>TLI</sub> <sup>#</sup>	L + F layer MRT <sub>L+F</sub>	0 - 5 cm layer MRT <sub>0-5cm</sub>	5 - 10 cm layer MRT <sub>5-10cm</sub>	10 - 20 cm layer MRT <sub>10-20cm</sub>	20 - 50 cm layer MRT <sup>\$</sup>
Spruce						
AhP	5	5	340	690	1460	-
SkP	6	5	130	45	145	-
WlP	6	5	260	20	230	-
NaP	6	5	150	160	450	-
AuP	5	6	35	35	45	140
MdMP	5	5	55	10	35	460
Beech						
GrF	2	4	70	30	50	255
ScF	2	4	140	150	370	-
AuF	2	5	80	50	410	-
CoF	2	5	65	55	440	-

# = mean age of carbon since photosynthesis.

\$ = derived from extrapolation of the correlation between <sup>14</sup>C enrichment and soil depth (see text).