

**Table 11.3:** Estimates of carbon fluxes [ $\text{t C ha}^{-1} \text{ yr}^{-1}$ ] of C respired to atmosphere in the L+F layer, transfer from L+F to mineral soil, total flux of C through the mineral soil, the input of root carbon to soil organic matter and the percentage of C flux in mineral soil attributable to root inputs.

Forest	C flux through the L + F layer	C respired <i>in situ</i> in L+F layer (i)	C transferred from L + F layer to soil mineral layers (ii)	Total C flux through the mineral soil (see Fig. 11.6a)	C flux in mineral soil derived from root carbon (see footnote #)	Percentage of C flux in mineral soil due to direct root carbon input
Spruce						
AhP	1.92	1.90	0.02	0.04	0.02	50
SkP	0.66	0.38	0.28	0.77	0.54	70
WIP	1.62	1.47	0.15	1.99	1.84	92
NaP	2.39	1.73	0.26	0.49	0.23	47
AuP	1.18	0.93	0.49	1.15	0.66	57
MdMP	1.95	1.61	0.35	3.18	2.83	89
Beech						
GrF	3.07	2.75	0.32	1.34	1.02	76
ScF	2.03	1.82	0.21	0.46	0.25	54
AuF	1.09	0.84	0.25	0.59	0.34	58
CoF	1.22	0.88	0.34	0.88	0.44	50

# Estimates of root derived carbon input to soil have been calculated as the difference between i) the total C flux through the mineral soil - column 4, minus ii) the input to the mineral soil from the aboveground litter - column 3. All estimates are 'representative mean values' and will not reflect annual variation that may be inherent in the litter production and decomposition.