

Table 14.2. Annual net N mineralisation (above) and potential net nitrification (below) [kg N ha⁻¹ yr⁻¹] for each soil layer and site as calculated from laboratory incubations of sifted soil, soil pools in the field (see Persson et al., Ch. 2, this volume) and corrected for soil temperature and moisture (Figure 14.3). Where no FH layer was found, the 0-10 cm layer was subdivided into 0-5 (a) and 5-10 cm (b). See Persson et al., Ch. 2, Table 2.1, this volume for complete site designation. SE is approximately 10-20 % of the mean values. The variation is lower for net N mineralisation than for net nitrification, and the variations are often largest in the L layer. Note that net nitrification values are overestimates, because in the field roots are present and can take up ammonium and, thereby, reduce nitrification.

Net N mineralisation:

Soil layer	Åhe	Sko	Klo	Gri	Sor	Nac	Jez	Wal	Sch	AuP90	AuP45	AuF	The	Col	MdM
L	0	4	13	16	31	13	14	21	45	incl. FH	6	9	-1	14	12
FH	0	22	53	(a) 45	(a) 43	49	62	70	57	31	29	31	(a) 16	(a) 60	(a) 70
0-10 cm	0	30	9	(b) 12	(b) 21	9	15	29	46	18	21	40	(b) 14	(b) 30	(b) 19
10-20 cm	0	18	9	15	21	7	5	21	27	3	4	21	18	36	32
20-30 cm	0	7	1	13	13	2	3	11	16	4	2	6	14	19	24
30-50 cm	0	0	-1	9	18	0	4	5	n.e.	5	4	8	16	16	10
<i>Total</i>	<i>0</i>	<i>81</i>	<i>84</i>	<i>110</i>	<i>147</i>	<i>80</i>	<i>101</i>	<i>157</i>	<i>191</i>	<i>61</i>	<i>66</i>	<i>115</i>	<i>77</i>	<i>175</i>	<i>167</i>
% in LFH	-	32	79	15	21	78	75	58	53	51	53	35	0	8	7

Net nitrification:

Soil layer	Åhe	Sko	Klo	Gri	Sor	Nac	Jez	Wal	Sch	AuP90	AuP45	AuF	The	Col	MdM
L	0	0	0	2	31	2	5	8	10	incl. FH	0	1	0	13	12
FH	0	0	0	(a) 22	(a) 34	7	63	24	24	16	0	11	(a) 0	(a) 88	(a) 75
0-10 cm	0	0	0	(b) 8	(b) 19	8	15	24	39	11	5	32	(b) 2	(b) 23	(b) 15
10-20 cm	0	1	0	6	16	6	4	25	29	3	3	14	1	19	34
20-30 cm	0	1	0	7	11	3	3	12	20	4	2	6	1	12	25
30-50 cm	0	1	0	5	16	2	4	8	n.e.	5	4	9	1	17	11
<i>Total</i>	<i>0</i>	<i>3</i>	<i>0</i>	<i>50</i>	<i>127</i>	<i>28</i>	<i>94</i>	<i>101</i>	<i>122</i>	<i>39</i>	<i>14</i>	<i>73</i>	<i>5</i>	<i>172</i>	<i>172</i>
% in LFH	-	0	-	4	24	32	72	32	28	41	0	16	0	8	7