

**Table 2.5** Mean dry mass ( $\pm$ SE), pH(H<sub>2</sub>O) (SE mostly 0.05-0.15) and KCl-extractable Al (SE mostly 5-15 % of the mean) in the litter (L), humus (FH) and sifted soil layers (roots and stones > 2 mm removed) in the NIPHYS/CANIF transect. Complementary sites given within parentheses. For abbreviations see Tables 2.1 and 2.3. Where no FH layer was found, the 0-10 cm layer was subdivided into 0-5 (a) and 5-10 cm (b). At AuP90 the L and FH layers were pooled (incl FH). At some sites, the figure for dry mass is an approximation (ap) based on few replicates. At Schacht the 30-50 cm layer was not sampled because of stones.

Soil layer		Åhe	Sko	Klo	Gri	(Sor)	Nac	Jez	Wal	Sch	AuP90	(AuP45)	AuF	The	Col	MdM
Dry mass [kg m <sup>-2</sup> ]	L	0.7±0.1	0.6±0.0	1.0±0.2	1.2±0.2	1.2±0.2	1.4±0.1	1.2±0.2	0.9±0.1	1.5±0.1	incl FH	0.8±0.1	0.7±0.1	0.8±0.1	2.1±0.2	3.9±0.7
	FH	2.8±0.6	6.4±0.5	11.7±0.9	<sup>a</sup> 41±2.9	<sup>a</sup> 23±6.5	13.8±0.8	13.4±3.0	14.8±1.4	6.7±0.6	4.5±1.1	3.3±0.5	3.0±0.3	<sup>a</sup> 34±0.9	<sup>a</sup> 19±1.7	<sup>a</sup> 34±2.2
	0-10 cm	89±2.9	93±5.4	108±5.5	<sup>b</sup> 55±2.7	<sup>b</sup> 57±3.4	50±10	34±2.1	80±9.2	43±4.0	44±5.0	45 (ap)	36±5.7	<sup>b</sup> 46±1.1	<sup>b</sup> 32±1.6	<sup>b</sup> 52±3.7
	10-20 cm	123±2.3	96±5.9	104±4.8	122±4.8	105±15	66±9.4	34±6.8	62±8.8	46±5.6	45±3.2	45 (ap)	47±3.3	95±3.2	79±2.5	108±2.1
	20-30 cm	128±4.7	95±4.7	124±2.0	140±3.3	141±3.1	70±3.1	33±5.7	60±5.9	51±6.8	50 (ap)	50 (ap)	54±2.2	95 (ap)	58±7.5	104±7.3
	30-50 cm	247±13	195±6.4	327±5.7	248±11	232±22	167±8.6	66±11	181±17	-	100 (ap)	110 (ap)	110 (ap)	190 (ap)	175±25	209±15
	Total	591±11	485±15	676±10	606±16	559±31	369±23	182±24	398±29	148±8.7	244 (ap)	254 (ap)	251 (ap)	460 (ap)	365±18	511±25
pH(H <sub>2</sub> O)	L	4.28	4.04	4.14	5.15	5.40	4.06	4.86	4.72	5.03	incl FH	4.15	4.61	4.57	5.89	6.62
	FH	3.93	4.06	3.88	<sup>a</sup> 4.29	<sup>a</sup> 4.65	3.62	4.11	3.69	4.34	3.96	3.77	4.01	<sup>a</sup> 5.58	<sup>a</sup> 5.92	<sup>a</sup> 6.85
	0-10 cm	4.45	4.01	3.94	<sup>b</sup> 4.07	<sup>b</sup> 4.58	3.47	3.93	3.52	3.99	3.60	3.45	3.57	<sup>b</sup> 5.90	<sup>b</sup> 5.45	<sup>b</sup> 6.98
	10-20 cm	5.09	4.48	4.22	4.15	5.12	3.76	4.12	3.80	4.32	3.93	3.78	3.80	5.88	5.45	7.32
	20-30 cm	5.18	4.52	4.47	4.40	6.05	3.97	4.18	4.26	4.49	4.27	4.01	4.09	5.90	5.50	7.37
	30-50 cm	5.27	4.57	4.60	4.65	7.24	4.28	4.27	4.44	-	4.48	4.24	4.43	5.75	5.60	7.61
KCl-extr. Al [meq kg <sup>-1</sup> ]	L	6.5	4.9	1.6	0.6	1.1	6.7	8.8	3.8	1.3	incl FH	5.5	3.1	0.6	0.5	0.2
	FH	24.6	35.0	27.8	<sup>a</sup> 7.0	<sup>a</sup> 13.6	78.4	90.7	96.1	30.0	35.7	25.6	29.0	<sup>a</sup> 0.2	<sup>a</sup> 0.4	<sup>a</sup> 0.0
	0-10 cm	47.6	30.2	16.2	<sup>b</sup> 3.7	<sup>b</sup> 34.1	86.4	81.1	63.8	60.0	76.6	81.7	61.1	<sup>b</sup> 0.1	<sup>b</sup> 27.6	<sup>b</sup> 0.0
	10-20 cm	14.5	21.3	35.7	18.1	23.8	86.5	72.8	108.4	79.6	84.9	91.5	68.4	0.2	43.9	0.0
	20-30 cm	11.9	14.6	13.3	14.2	14.1	60.8	65.2	58.0	69.0	81.1	92.0	76.0	0.4	44.8	0.0
	30-50 cm	3.5	7.8	3.2	10.0	0.5	33.3	48.8	24.9	-	72.5	61.8	67.0	3.9	39.2	0.0