

Heavy metal (mg kg⁻¹) and nitrogen (mass %) concentrations in mosses in 2010.

	As	Cd	Cr	Cu	Fe	Hg	Ni	Pb	V	Zn	Al	Sb	N (%)
Albania													
Number	59	59	59	59	59	61	59	59	59	59	59		
Min	0.039	0.038	1.62	1.52	469	0.031	1.56	1.34	1.15	1.00	535		
Max	2.20	0.90	31.8	11.1	5488	2.23	131	19.7	16.9	68.1	6974		
Mean	0.42	0.17	6.35	4.31	1915	0.20	11.2	3.37	4.26	14.2	1975		
Median	0.24	0.11	4.83	3.96	1629	0.13	5.81	2.42	3.52	13.8	1650		
90th percentile	1.12	0.29	12.0	6.35	3287	0.31	21.8	4.83	6.63	22.8	3089		
Austria													
Number	221	221	221	221	221	221	221	221	221	221	221	221	221
Min	0.065	0.047	0.49	2.90	97.0	0.004	0.31	0.55	0.34	13.0	81.9	0.040	0.74
Max	1.78	1.10	6.50	29.0	2800	0.35	4.50	12.0	17.0	81.0	3024	1.60	2.20
Mean	0.32	0.16	1.28	5.56	411	0.037	1.18	2.64	1.55	25.6	444	0.19	1.26
Median	0.22	0.13	1.00	5.00	320	0.033	1.00	2.40	1.30	24.0	347	0.16	1.20
90th percentile	0.60	0.26	2.70	6.80	690	0.051	2.00	4.00	2.50	37.0	819	0.29	1.60
Belarus													
Number	76		76		76		76		76	76	76	76	
Min	0.006		0.66		194		0.086		0.59	21.5	267	0.026	
Max	0.34		5.23		1030		1.21		3.68	94.7	1650	0.34	
Mean	0.14		3.04		466		0.39		1.35	40.1	650	0.11	
Median	0.12		3.21		416		0.23		1.19	34.1	557	0.096	
90th percentile	0.20		4.64		788		0.85		2.20	66.7	1045	0.19	
Belgium													
Number	29	29	29	29	29	29	29	29	29	29	29		29
Min	0.052	0.092	0.54	3.27	171	0.020	0.72	2.12	0.41	16.6	114		0.79
Max	0.89	0.69	3.89	11.5	1109	0.32	22.7	12.5	2.76	132	696		2.30
Mean	0.19	0.33	1.08	6.80	377	0.068	2.14	5.14	1.19	52.4	275		1.38
Median	0.16	0.30	0.92	6.50	365	0.058	1.41	3.87	1.14	44.2	242		1.37
90th percentile	0.26	0.55	1.62	8.97	513	0.094	1.97	9.31	1.94	77.6	443		1.78
Bulgaria													
Number	60	129	129	129	129		129	129	129	129	129		99
Min	0.15	0.043	0.72	2.00	307		0.84	1.69	0.96	8.22	402		0.20
Max	10.8	7.75	38.1	270	8546		82.1	333	22.4	286	8886		2.94
Mean	1.08	0.39	3.46	12.2	1534		4.37	16.8	3.96	30.6	1493		1.38
Median	0.63	0.21	2.06	7.01	1101		2.61	8.00	3.07	22.2	1245		1.32
90th percentile	1.76	0.57	5.87	21.0	2824		6.44	21.9	7.52	45.4	2714		1.90
Croatia													
Number	121	121	121	121	121	121	121	121	121	121	121		119
Min	0.039	0.10	0.41	3.35	85	0.010	1.04	1.11	0.23	11.6	112		0.71
Max	0.77	1.42	8.55	16.1	4028	0.15	14.7	36.6	37.3	77.1	4493		2.93
Mean	0.30	0.43	2.25	6.55	881	0.043	3.70	3.79	3.50	27.1	1062		1.54
Median	0.28	0.38	1.94	6.06	789	0.043	3.16	3.21	2.55	24.8	878		1.49
90th percentile	0.54	0.74	3.91	9.32	1658	0.063	6.39	5.48	6.17	41.6	1995		2.35
Czech Republic													
Number	273	273	273	273	273	273	273	273	273	273	273	273	273
Min	0.068	0.092	0.46	3.26	150	0.019	0.37	1.17	0.44	20.1	184	0.001	0.70
Max	1.08	1.38	4.35	10.7	2072	0.11	4.47	42.1	6.10	105	3227	0.82	2.52
Mean	0.29	0.22	1.21	6.00	421	0.043	1.27	3.83	1.38	36.5	526	0.097	1.38
Median	0.26	0.18	1.01	5.92	348	0.041	1.15	2.85	1.18	33.9	435	0.096	1.33
90th percentile	0.46	0.34	2.10	7.84	692	0.058	2.01	5.77	2.23	47.3	797	0.15	1.86
Denmark (Faroe Islands)													
Number	7	7	7	7	7	7	7	7	7	7	7	7	
Min	0.071	0.034	0.56	3.48	511	0.054	0.90	1.30	2.23	12.7	461	0.039	
Max	0.12	0.080	0.84	4.63	1074	0.074	1.84	2.05	4.40	28.8	724	0.060	
Mean	0.086	0.057	0.72	4.09	842	0.065	1.23	1.72	3.01	17.2	617	0.048	
Median	0.084	0.049	0.71	4.27	853	0.064	1.12	1.66	2.91	14.8	612	0.050	
90th percentile	0.10	0.078	0.82	4.52	982	0.072	1.63	2.03	3.73	23.3	711	0.057	
Estonia													
Number		99	99	99	99	99	99	99	99	99	99		99
Min		0.080	0.36	0.92	93	0.022	0.43	1.29	1.05	19.3	79		0.65
Max		0.25	2.40	10.6	617	0.076	2.10	3.97	2.85	55.6	492		1.50
Mean		0.15	0.75	3.81	204	0.034	0.86	2.50	1.17	31.5	204		0.94
Median		0.14	0.68	3.67	180	0.031	0.82	2.41	1.07	30.9	188		0.88
90th percentile		0.21	1.04	4.81	317	0.047	1.15	3.33	1.48	39.7	294		1.28
Finland													
Number	201	426	426	426	426	202	426	426	426	426	426		426
Min	<0.10	<0.050	0.34	0.74	53	0.016	0.42	<0.75	<1.00	11.5	44		0.38
Max	0.38	0.44	14.0	55.1	2230	0.12	88.2	6.57	14.2	102	958		2.06
Mean	0.12	0.12	0.95	4.90	240	0.042	2.45	2.04	1.28	31.0	206		0.77
Median	0.10	0.11	0.80	3.91	209	0.039	1.24	1.87	1.00	29.5	187		0.70
90th percentile	0.17	0.18	1.38	7.45	411	0.067	3.43	3.17	1.79	43.2	318		1.11

(continued).

	As	Cd	Cr	Cu	Fe	Hg	Ni	Pb	V	Zn	Al	Sb	N (%)
France													
Number	442	442	442	442	442	442	442	442	442	442	442	442	442
Min	<0.050	0.042	0.52	2.24	86	0.025	0.55	1.00	0.42	14.1	62	0.030	0.80
Max	2.46	1.21	5.91	16.2	3540	0.15	10.2	18.2	6.35	97.3	2020	0.58	2.71
Mean	0.26	0.20	1.55	6.36	429	0.069	2.00	4.03	1.45	34.3	357	0.14	1.47
Median	0.18	0.17	1.43	6.06	343	0.066	1.75	3.29	1.24	30.7	286	0.11	1.45
90th percentile	0.48	0.35	2.27	8.69	788	0.095	3.25	7.17	2.38	53.0	685	0.23	1.90
Iceland													
Number	144	144	144	144		144	144	144		144			
Min	0.045	0.012	0.68	3.06		0.025	0.83	0.27		8.4			
Max	1.38	0.29	18.1	47.4		0.16	40.7	72.1		194			
Mean	0.25	0.06	4.09	9.92		0.055	6.63	1.69		25.6			
Median	0.15	0.05	3.16	8.16		0.048	4.09	0.91		21.9			
90th percentile	0.50	0.12	8.36	16.7		0.088	14.4	2.03		36.2			
Italy (Bolzano region)													
Number	20	20	20	20	20	20	20	20	20	20			20
Min	0.14	0.060	0.78	5.72	232	0.054	0.89	1.76	0.91	17.7			0.68
Max	0.95	0.22	3.37	13.9	646	0.12	3.36	11.5	1.90	68.4			1.43
Mean	0.28	0.11	1.59	9.26	420	0.083	1.77	3.64	1.39	38.2			1.09
Median	0.22	0.11	1.59	8.88	431	0.084	1.69	3.11	1.37	37.1			1.09
90th percentile	0.38	0.14	2.17	12.0	546	0.11	2.27	4.57	1.63	54.7			1.34
Kosovo													
Number		25	25	25	24	25	24	25		25			
Min		0.028	1.63	2.46	124	0.009	1.22	2.62		14.3			
Max		3.05	4.55	3.93	3082	0.35	34.2	47.8		76.0			
Mean		0.37	2.72	3.12	582	0.055	6.08	12.13		37.8			
Median		0.13	2.63	3.04	312	0.033	2.00	7.78		38.5			
90th percentile		0.83	3.52	3.54	1085	0.091	24.4	20.7		55.2			
Macedonia													
Number	52	72	72	72	72	72	72	72	72	72	72		68
Min	0.077	0.068	1.03	1.97	513	0.010	1.25	1.87	1.00	1.00	537		0.68
Max	3.30	2.24	39.7	10.6	6348	0.60	51.7	22.0	17.4	365	8679		1.75
Mean	0.88	0.29	4.68	4.02	1732	0.11	6.43	5.40	3.95	29.7	2176		1.08
Median	0.69	0.22	3.48	3.54	1490	0.093	3.45	4.61	3.49	19.9	1878		1.06
90th percentile	2.01	0.44	7.38	6.21	2941	0.16	10.5	8.37	6.20	48.1	3373		1.29
Norway													
Number	463	463	463	463	463	463	463	463	463	463	463	463	
Min	0.020	0.009	0.16	1.38	27	<0.024	0.15	0.33	0.29	7.4	46	<0.001	
Max	4.84	1.87	47.9	443	24684	0.34	857	20.8	25.9	368	4581	1.17	
Mean	0.18	0.12	0.98	6.43	449	0.070	5.40	2.29	1.76	35.9	346	0.092	
Median	0.13	0.081	0.59	4.04	278	0.060	1.16	1.54	1.41	30.7	283	0.058	
90th percentile	0.26	0.23	1.55	7.29	685	0.11	2.79	4.85	3.03	57.5	565	0.20	
Poland													
Number		320	320	320	320	320	320	320	308	320			320
Min		0.003	0.20	1.46	110	0.029	0.14	1.54	0.11	7.46			0.78
Max		14.3	293	133	2618	0.76	108	141	4.69	211			2.86
Mean		0.45	3.58	6.94	405	0.072	2.20	6.73	0.77	51.8			1.56
Median		0.30	1.27	6.04	344	0.069	1.15	4.93	0.65	47.5			1.52
90th percentile		0.71	4.25	9.64	663	0.097	3.47	10.6	1.36	86.1			1.97
Romania													
Number	333		331		332		253		333	332	333	332	
Min	0.10		0.68		237		0.39		0.39	0.6	220	0.013	
Max	51.1		62.2		29500		35.9		58.3	1440	34400	16.5	
Mean	1.48		8.18		3000		4.99		7.56	56.0	4861	0.45	
Median	0.68		4.98		1670		3.60		4.89	42.3	3150	0.21	
90th percentile	2.76		18.9		6610		8.80		17.7	85.4	11620	0.63	
Russian Federation (Ivanovo, Kostromskaya, Tikhvin-Leningradskaya)													
Number	66	30	65	21	90		66		90	91	90	66	
Min	0.067	0.004	0.73	1.02	50		1.17		0.81	2.40	288	0.028	
Max	9.32	0.96	242	43.9	13600		11.3		23.40	172	13300	0.32	
Mean	0.46	0.17	22.4	10.2	1049		4.08		4.15	39.2	1826	0.12	
Median	0.15	0.068	9.16	7.22	419		2.82		2.45	33.6	922	0.092	
90th percentile	0.92	0.42	41.5	24.0	2470		9.48		11.1	59.5	3496	0.22	
Slovakia													
Number		67		67				67	67		67		67
Min		0.078		6.44				2.31	0.60		251		1.00
Max		3.39		90.4				58.4	10.2		5580		2.85
Mean		0.77		14.5				10.9	2.04		1043		1.84
Median		0.67		11.5				8.51	1.50		707		1.79
90th percentile		1.24		19.8				18.9	3.39		1926		2.39
Slovenia													
Number	102	102	102	102	102	63	102	102	102	102		102	102
Min	0.13	0.090	0.72	2.83	243	0.030	0.85	1.96	1.00	14.7		0.060	0.85
Max	0.83	1.05	13.7	11.4	1391	0.16	8.16	304	7.00	66.7		0.76	1.99
Mean	0.28	0.33	1.94	5.71	617	0.056	2.34	8.79	2.40	31.5		0.13	1.32
Median	0.26	0.27	1.56	5.42	548	0.050	2.12	5.01	2.30	29.0		0.12	1.29
90th percentile	0.41	0.53	2.69	7.29	934	0.070	3.34	8.63	3.57	48.7		0.18	1.70

(continued).

	As	Cd	Cr	Cu	Fe	Hg	Ni	Pb	V	Zn	Al	Sb	N (%)
Spain (Galicia, Navarra, Rioja)¹													
Number	211	211	39	39	39	211	64	64	39	186	39	39	64
Min	0.086	0.031	0.43	2.64	171	0.022	0.58	0.95	0.55	12.7	173	0.040	0.64
Max	2.69	1.57	4.77	9.81	1449	0.081	3.94	10.3	4.20	156	1459	0.15	1.80
Mean	0.39	0.22	1.83	4.83	610	0.040	1.60	2.75	1.36	32.9	597	0.072	1.09
Median	0.29	0.16	1.46	4.70	520	0.039	1.44	2.13	1.21	31.5	511	0.069	1.05
90th percentile	0.73	0.37	3.38	6.25	1089	0.053	2.88	4.86	2.08	44.7	1043	0.10	1.48
Sweden													
Number	602	602	602	602	602	602	602	602	602	602	602		
Min	0.080	0.023	0.11	1.38	28	0.016	0.22	0.43	0.16	13.4	25		
Max	0.45	0.39	10.8	23.5	2406	0.14	7.11	19.9	9.63	81.9	1303		
Mean	0.10	0.13	0.67	3.92	135	0.041	0.72	2.09	0.79	33.9	143		
Median	0.10	0.13	0.52	3.61	101	0.038	0.66	1.87	0.69	32.6	110		
90th percentile	0.10	0.21	1.14	5.57	218	0.062	1.02	3.38	1.26	46.8	254		
Switzerland													
Number	142	142	142	142	156	142	142	142	142	142	142		64
Min	0.027	0.034	0.21	2.61	101	0.018	0.17	0.71	0.22	11.1	81		0.64
Max	5.81	3.57	5.25	10.0	1732	0.076	5.93	12.7	4.27	170	2256		1.88
Mean	0.19	0.18	0.92	4.89	351	0.034	1.30	2.60	0.88	27.8	357		1.05
Median	0.10	0.13	0.75	4.37	286	0.031	1.00	2.24	0.74	23.7	295		1.00
90th percentile	0.27	0.26	1.55	6.68	601	0.047	2.50	4.15	1.44	40.7	626		1.38
Ukraine (Donetsk)													
Number		16	16	17	17		17	17	17	17	17		
Min		0.080	0.25	12.8	1003		4.70	5.56	0.98	37.6	821		
Max		0.52	2.40	62.1	7307		26.1	20.9	3.99	152	4664		
Mean		0.33	0.92	22.9	2437		8.94	8.74	2.51	63.7	1822		
Median		0.36	0.73	21.2	1414		6.70	7.07	2.63	54.9	1476		
90th percentile		0.40	1.59	33.1	6708		15.4	14.4	3.80	92.4	3177		

¹ As, Cd, Hg: all regions; Zn: Galicia and Navarra; Ni, Pb, N: Navarra and Rioja; Al, Cr, Cu, Fe, Sb, V: Navarra.
Number = number of sampling sites; Min = minimum; Max = maximum.

Note: all data are copyright of ICP Vegetation.