

**Table S3. Content of the forms and values of Cu pollution indices in sandy soils**

City	Land use / Horizon		Depth	Cu <sub>t</sub>	Cu <sub>a</sub>	Fractions [mg/kg]				Cu indices			
				[mg/kg]		I	II	III	IV	C <sub>a</sub> /C <sub>t</sub>	C <sub>f</sub>	I <sub>geo</sub>	BF
BP	DG	Ap	0-20	28.23	16.77	0.00	0.00	11.69	16.54	59.39	2.61	0.80	41.41
		A	20-36	28.03	15.77	0.00	0.00	10.69	17.34	56.25	2.59	0.79	38.14
		A/C	36-65	18.43	7.98	0.00	0.00	2.85	15.58	43.28	1.70	0.18	15.46
		CG	65-111	18.58	4.88	0.00	0.00	0.00	18.58	26.27	1.72	0.19	0.00
		G	>111	10.82	3.44	0.00	0.00	0.00	10.82	31.82	-	-	0.00
	AG	Ap	0-20	16.73	8.42	0.51	0.00	2.21	14.01	50.30	1.18	0.00	16.27
		A	20-32	16.68	8.20	0.00	0.00	1.69	14.99	49.14	1.18	0.00	10.13
		Es	32-69	14.48	9.43	0.00	0.00	0.00	14.48	65.13	1.02	0.00	0.00
		Bhs	69-91	13.88	4.49	0.00	0.00	0.00	13.88	32.37	0.98	0.00	0.00
		CG	>91	14.13	3.75	0.00	0.00	0.00	14.13	26.55	-	-	0.00
	A	Ap	0-27	9.26	4.29	0.00	0.00	0.00	9.26	46.35	3.30	1.14	0.00
		Es	27-47	2.02	1.61	0.00	0.00	0.00	2.02	79.80	0.72	0.00	0.00
		Bhs	47-82	7.13	2.81	0.00	0.00	0.00	7.13	39.35	2.54	0.76	0.00
		C	>82	2.81	1.18	0.00	0.00	0.00	2.81	42.06	-	-	0.00
LU	DG	Ap	0-20	10.10	6.71	0.00	0.00	0.87	9.23	66.44	1.80	0.26	8.58
		A	20-35	15.68	5.99	0.00	0.00	0.00	15.68	38.18	2.80	0.90	0.00
		Bv	35-65	9.94	3.67	0.00	0.00	0.00	9.94	36.91	1.78	0.24	0.00
		C	>65	5.60	2.22	0.00	0.00	0.00	5.60	39.63	-	-	0.00
	AG	Ap	0-20	16.93	8.12	0.00	0.00	0.16	16.77	47.96	2.67	0.83	0.94
		A	20-35	12.98	6.71	0.00	0.00	0.00	12.98	51.72	2.05	0.45	0.00
		Bhs	35-50	10.43	4.46	0.00	0.00	0.00	10.43	42.72	1.65	0.13	0.00
		G	50-67	10.02	2.61	0.00	0.00	0.00	10.02	26.04	1.58	0.08	0.00
		C	>67	6.33	2.55	0.00	0.00	0.00	6.33	40.22	-	-	0.00
	A	Ap	0-20	9.38	3.25	0.00	0.00	0.00	9.38	34.62	0.89	0.00	0.00
		Bv	20-50	9.80	1.69	0.00	0.00	0.00	9.80	17.28	0.93	0.00	0.00
		C	>50	10.58	1.66	0.00	0.00	0.00	10.58	15.68	-	0.00	0.00
T	DG	Ap	0-20	25.73	11.57	0.00	1.49	3.98	20.26	44.95	0.78	0.00	21.24
		A	20-40	23.43	12.37	0.00	0.61	3.18	19.64	52.78	0.71	0.00	16.18
		A	40-65	23.53	11.90	0.00	0.45	2.77	20.31	50.57	0.72	0.00	13.67
		AG	65-90	41.63	10.62	0.00	0.46	2.43	38.74	25.50	1.27	0.00	6.93
		G	>100	32.83	8.06	0.00	0.96	1.61	30.26	24.54	-	-	7.83
	AG	Ap	0-20	24.23	14.07	0.00	0.08	5.08	19.07	58.05	0.75	0.00	21.30
		A	20-40	15.43	6.75	0.00	0.18	2.31	12.94	43.72	0.48	0.00	16.11
		A	40-60	28.63	4.72	0.00	0.00	1.74	26.89	16.48	0.88	0.00	6.08
		AG	60-80	15.89	3.26	0.00	0.00	1.35	14.55	20.53	0.49	0.00	8.46
		G	80-100	19.03	4.17	0.00	0.00	1.22	17.81	21.92	0.59	0.00	6.41
		C	>100	32.48	4.41	0.00	0.00	1.12	31.36	13.58	-	-	3.45
	A	Ap	0-20	14.03	4.04	0.00	0.00	1.67	12.37	28.81	2.47	0.72	11.87
		A	20-32	8.66	3.29	0.00	0.00	1.50	7.16	37.97	1.53	0.02	17.33
		Bv	32-55	6.60	1.94	0.00	0.00	1.22	5.38	29.46	1.16	0.00	18.42
		Bv/C	55-130	4.22	1.68	0.00	0.00	1.26	2.96	39.72	0.74	0.00	29.86
		C	>130	5.68	1.60	0.00	0.00	1.34	4.34	28.24	-	-	23.52

Explanations: BP – Biała Podlaska, LU – Lubartów, T – Tarnobrzeg, DG – domestic garden,

AG – allotment garden, A - arable field