

**S4 Table. Content of the forms and values of Zn pollution indices in silty soils**

City	Land use / Horizon	Depth [cm]	Zn <sub>t</sub>	Zn <sub>a</sub>	Fractions [mg/kg]				Zn indices				
			[mg/kg]	I	II	III	IV	C <sub>a</sub> /C <sub>t</sub>	C <sub>f</sub>	I <sub>geo</sub>	BF		
LB	DG	Ap	0-27	18.20	18.40	3.09	2.88	2.17	10.06	101.08	1.51	0.01	44.74
		A/Et	27-60	12.40	4.71	1.45	1.57	1.54	7.84	37.95	1.03	0.00	36.81
		Bt	60-85	15.15	2.08	1.71	1.43	1.60	10.41	13.70	1.26	0.00	31.30
		C	>85	12.05	1.93	2.02	1.53	1.93	6.58	16.02	-	-	45.43
	AG	Ap	0-25	26.90	19.75	3.13	3.22	2.05	18.51	73.42	1.74	0.22	31.19
		Et	25-45	13.22	6.18	1.59	1.78	1.74	8.10	46.78	0.86	0.00	38.70
		Bt	45-55	7.39	5.68	1.90	1.92	1.61	1.97	76.79	0.48	0.00	73.37
		C	>55	15.43	5.13	1.69	2.17	2.01	9.55	33.23	-	-	38.09
	A	Ap	0-25	28.18	8.97	2.22	2.50	2.48	20.98	31.85	2.15	0.90	25.53
		Et	25-50	11.60	4.26	2.19	1.65	2.13	5.63	36.72	0.89	0.00	51.46
		Bt1	50-60	25.85	5.24	2.46	2.24	2.15	19.00	20.28	1.97	0.77	26.50
		Bt2	60-80	21.50	3.46	1.64	1.93	1.91	16.02	16.10	1.64	0.51	25.51
		Bt/C	80-100	15.30	2.48	2.31	2.38	2.08	8.53	16.23	1.17	0.02	44.26
		C	100-120	13.10	2.30	1.71	2.02	2.56	6.81	17.54	-	0.00	48.02
		C	120-140	10.08	3.05	1.55	1.98	1.78	4.77	30.30	-	-	52.69
P	DG	Ap	0-20	35.90	14.10	3.23	5.46	3.83	23.37	39.26	1.16	0.00	34.89
		A	20-41	27.40	12.60	2.99	2.40	3.10	18.92	45.97	0.89	0.00	30.97
		Et	41-67	19.25	3.32	1.45	1.90	2.29	13.61	17.26	0.62	0.00	29.32
		Bt1	67-130	22.40	4.39	0.98	1.93	1.74	17.75	19.58	0.73	0.00	20.78
		Bt2	130-150	28.20	6.29	1.07	4.10	2.39	20.64	22.29	0.91	0.00	26.82
		C	>150	30.85	6.22	1.16	2.14	2.01	25.54	20.16	-	-	17.20
	AG	Ap	0-20	59.85	38.70	0.37	11.02	5.17	43.29	64.65	2.30	0.62	27.66
		A	20-33	63.90	32.20	5.95	9.59	3.68	44.69	50.38	2.45	0.71	30.06
		Et	33-59	21.95	8.21	1.68	3.11	1.96	15.20	37.38	0.84	0.00	30.77
		Bt1	59-95	28.43	5.27	1.19	2.34	2.30	22.60	18.52	1.09	0.00	20.51
		Bt2	95-128	16.90	5.38	0.89	2.06	1.85	12.10	31.83	0.65	0.00	28.43
		C	>128	26.05	4.89	0.86	2.21	1.75	21.24	18.76	-	-	18.47
	A	Ap	0-25	37.70	8.89	1.66	2.94	3.32	29.78	23.58	1.01	0.00	21.00
		Bt1	25-40	39.78	5.76	1.49	1.96	1.76	34.57	14.47	1.06	0.00	13.10
		Bt2	40-88	30.10	5.68	1.04	2.82	1.75	24.49	18.85	0.80	0.00	18.65
C		>88	37.40	8.50	1.10	3.05	1.88	31.37	22.72	-	-	16.12	
Z	DG	Ap	0-24	104.00	101.10	2.74	6.54	7.05	87.68	97.21	11.30	2.91	15.70
		Et	24-60	50.55	22.00	1.40	1.68	3.02	44.45	43.51	5.49	1.87	12.07
		Bt	60-104	36.10	27.60	1.36	3.65	2.87	28.23	76.45	3.92	1.39	21.81
		C	>104	9.21	3.78	2.51	1.71	2.21	2.77	41.02	-	-	69.86
	AG	Ap	0-27	34.68	10.07	0.33	0.73	2.82	3081	29.03	1.86	0.31	11.16
		Bt	27-82	17.20	4.22	2.91	1.72	2.24	10.33	24.53	0.92	0.00	39.94
		C	>82	18.63	4.91	0.57	0.29	2.77	15.00	26.36	-	-	19.49
	A	Ap	0-23	53.86	41.51	1.31	3.65	4.27	44.63	77.07	4.00	1.42	17.14
		Et	23-39	35.38	15.03	0.56	0.36	2.23	32.22	42.49	2.63	0.81	8.91
		Bt	39-101	29.85	6.40	2.45	2.28	2.22	22.90	21.43	2.22	0.57	23.27
C	>101	13.45	4.68	0.73	0.87	2.01	9.85	34.76	-	-	26.80		

Explanations: LB – Lublin, P – Przemyśl, Z – Zamość, DG – domestic garden, AG –

allotment garden, A - arable field