

Table S2. Basic physicochemical properties of silty soils

City	Land use / Horizon		Depth	pH in H ₂ O	pH in KCl	C [g/kg]	N [g/kg]	HA	S	CEC	Soil composition
								[mmol/kg]			
LB	DG	Ap	0-27	6.7	6.5	5.85	9.08	7.50	63.97	71.47	loamy sand
		A/Et	27-60	6.9	5.8	2.40	11.43	6.37	22.24	28.61	
		Bt	60-85	6.5	5.1	1.44	17.14	6.00	15.46	21.46	
		C	>85	6.3	5.1	0.99	9.90	5.62	26.15	31.77	
	AG	Ap	0-25	7.9	7.6	8.83	9.29	3.38	89.40	92.78	silt loam
		Et	25-45	8.4	7.8	1.29	4.96	2.40	86.08	88.48	
		Bt	45-55	8.6	8.0	1.17	5.57	2.40	57.76	60.16	
		C	>55	8.5	7.9	1.08	5.14	2.80	86.48	89.28	
	A	Ap	0-25	7.7	7.5	6.86	7.22	4.65	76.78	81.43	silt loam
		Et	25-50	7.2	6.3	3.48	8.29	6.90	53.41	60.31	
		Bt1	50-60	6.7	5.4	2.60	6.84	10.35	73.60	83.95	
		Bt2	60-80	6.6	5.2	2.12	6.06	11.78	77.62	89.40	
		Bt/C	80-100	6.6	5.1	1.88	7.83	10.13	77.47	87.60	
		C	100-120	6.4	5.1	1.76	7.33	9.53	63.68	73.20	
			C	120-140	6.2	4.8	0.96	5.65	8.25	59.74	67.99
P	DG	Ap	0-20	6.7	6.2	16.13	1.80	12.53	96.95	109.47	silt loam
		A	20-41	6.6	6.0	13.39	1.55	12.98	91.82	104.79	
		Et	41-67	6.4	5.3	2.49	0.88	10.73	86.89	97.61	
		Bt1	67-130	6.2	4.9	2.06	0.43	11.78	93.77	105.55	
		Bt2	130-150	5.5	4.3	1.26	0.35	14.03	91.18	105.20	
		C	>150	5.7	4.3	1.34	0.32	13.28	90.93	104.20	
	AG	Ap	0-20	7.3	7.3	15.40	1.72	6.00	113.43	119.43	silt loam
		A	20-33	7.4	7.2	12.60	1.50	6.00	113.33	119.33	
		Et	33-59	7.4	7.1	6.26	0.85	6.15	102.53	108.68	
		Bt1	59-95	7.5	6.8	4.94	0.67	4.88	83.56	88.44	
		Bt2	95-128	7.5	6.8	5.40	0.45	5.25	79.53	84.78	
		C	>128	7.5	6.6	2.94	0.73	4.50	86.14	90.64	
	A	Ap	0-25	7.1	6.5	9.02	1.15	7.50	98.09	105.59	silt loam
		Bt1	25-40	7.3	6.2	2.46	0.49	6.15	88.24	94.39	
		Bt2	40-88	7.4	6.1	1.10	0.32	5.85	85.10	90.95	
		C	>88	7.5	6.1	1.22	0.26	5.03	91.06	96.08	
Z	DG	Ap	0-24	7.7	7.3	19.12	1.64	3.23	94.36	97.59	silt loam
		Et	24-60	7.8	7.5	6.24	0.81	2.48	95.72	98.20	
		Bt	60-104	7.8	7.4	6.96	0.88	3.00	92.23	95.23	
		C	>104	7.7	7.5	1.88	0.32	3.53	74.68	78.20	
	AG	Ap	0-27	7.5	7.0	8.52	1.17	3.75	97.99	101.74	silt loam
		Bt	27-82	7.9	7.1	1.17	0.26	3.00	85.23	88.23	
		C	>82	8.2	7.7	0.56	0.18	2.25	94.18	96.43	
	A	Ap	0-23	6.8	6.5	16.20	1.73	6.98	98.15	105.12	silt loam
		Et	23-39	7.0	6.7	5.79	0.84	4.50	90.23	94.73	
		Bt	39-101	7.3	6.5	1.95	0.49	3.98	103.42	107.39	
C		>101	7.9	7.6	0.80	0.25	2.25	97.38	99.63		

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

allotment garden, A - arable field