The combination of soil magnetometry with portable XRF spectroscopy as an effective tool for the assessment of sources of trace elements in topsoil [supplementary data]

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Table S1
Volume magnetic susceptibility of soil cores from LG [·10^{-5} SI units]

Depth [cm]	K [·10^{-5} SI units]									
	G18	G22	G27	G34	G35	G37	G44	G50	G52	G58
2	153.2	161.2	144.5	121.5	78.3	99.6	139.4	120.4	158.9	227.8
4	158.9	169.3	160.7	128.4	99.6	110.6	144.5	183.7	172.8	220.6
6	149.7	142.8	153.2	120.4	103.7	108.3	147.4	156.1	164.7	140.5
8	142.8	96.2	101.4	111.1	101.4	125.0	133.0	115.6	126.1	84.1
10	131.9	71.4	70.3	72.0	95.6	115.8	53.0	87.5	118.1	65.7
12	114.0	42.6	47.8	65.7	69.7	76.6	17.3	66.8	112.9	50.1
14	114.0	24.8	29.9	56.4	27.6	43.2	12.7	43.8	100.2	30.5
16	66.2	12.1	15.5	28.2	13.3	36.3	7.5	41.5	82.4	23.6
18	34.6	11.5	9.2	23.0	10.4	30.0	7.5	31.1	65.1	22.5
20	19.6	17.3	7.5	12.7	8.6	35.1	8.1	21.9	59.9	25.9
22	15.5	11.5	9.8	10.9	9.2	31.7	9.2	19.0	46.6	25.9
24	17.9	8.6	12.7	9.8	7.5	25.9	5.8	15.5	39.7	29.9
26	13.2	9.8	10.9	10.4	6.9	17.3	6.3	18.4	37.4	33.4
28	5.8	12.7	9.8	10.4	6.9	10.9	5.8	19.6	44.9	21.9

Table S2
Volume magnetic susceptibility of soil cores from LK [·10^{-5} SI units]

Depth [cm]	K [·10^{-5} SI units]									
	K1	K2	K15	K34	K35	K39	K40	K41	K42	K43
2	90.4	65.7	106.5	78.3	59.3	69.1	82.4	97.3	103.7	106.5
4	93.9	72.6	122.7	96.2	77.2	99.1	120.9	134.2	133.6	130.0
6	90.4	76.0	121.5	95.0	99.1	99.6	93.9	141.7	122.1	111.1
8	69.1	70.8	100.8	81.2	100.8	58.1	77.2	89.8	76.0	65.1
10	34.6	38.0	68.0	42.6	73.7	40.9	54.7	42.6	41.5	59.9
12	17.3	24.2	54.7	25.9	74.3	35.1	39.2	31.1	32.8	61.0
14	14.4	20.7	43.8	24.2	60.5	35.1	36.3	30.5	34.6	28.8
16	11.5	16.1	40.3	24.2	32.8	28.2	39.7	29.9	35.7	25.3
18	6.9	12.1	37.4	18.4	23.0	13.8	32.8	41.5	36.9	25.3
20	6.9	10.4	32.8	12.7	18.4	6.9	25.9	45.5	39.7	22.5
22	5.8	9.2	28.2	16.1	11.5	5.2	23.0	43.2	40.3	20.2
24	8.6	12.7	25.9	10.9	8.6	n/a	25.3	40.9	40.3	19.6
26	13.2	10.4	32.2	n/a	11.5	n/a	24.8	29.4	35.1	17.3
28	8.1	8.1	46.1	n/a	7.5	n/a	20.7	20.7	32.8	13.8
30	90.4	65.7	106.5	78.3	n/a	n/a	n/a	n/a	7.1	n/a

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Table S3

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-18 (0–28 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3172.5	54.6	21.1	124.5	n/a	90.0	22.7	78.1	1.8
	2	3033.2	42.0	24.6	176.8	6.3	99.4	23.3	79.9	1.9
	3	3220.6	51.5	24.4	202.1	12.8	98.7	23.9	89.4	2.0
	4	3244.0	54.2	31.3	119.8	8.5	86.5	22.2	79.5	1.8
	5	3245.5	56.4	24.1	170.5	n/a	94.1	22.6	82.2	1.9
	mean	3183.2	51.7	25.1	158.7	9.2	93.7	23.0	81.8	1.9
4	1	3180.1	53.1	11.9	147.0	n/a	105.0	24.7	83.1	2.0
	2	3073.3	47.0	28.6	147.6	n/a	113.7	21.8	82.5	1.8
	3	3269.8	53.3	21.8	154.5	1.6	110.8	24.8	89.4	2.0
	4	3247.7	49.7	19.4	145.2	n/a	104.9	24.5	81.2	2.0
	5	3165.8	55.3	26.8	154.1	n/a	95.0	22.0	69.5	1.8
	mean	3187.3	51.7	21.7	149.7	1.6	105.9	23.6	81.1	1.9
6	1	3276.1	58.6	27.7	216.6	n/a	108.2	26.5	90.8	2.3
	2	3254.9	49.3	21.9	166.0	n/a	96.0	23.9	76.7	2.1
	3	3648.1	53.2	31.3	233.0	n/a	105.4	24.9	72.4	2.2
	4	3306.7	57.2	30.1	166.7	n/a	99.1	23.8	84.1	2.2
	5	3295.9	50.7	25.2	186.9	n/a	106.3	25.6	88.4	2.2
	mean	3356.3	53.8	27.2	193.8	n/a	103.0	24.9	82.5	2.2
8	1	3348.2	59.9	42.4	315.1	n/a	87.8	45.2	123.9	3.8
	2	3003.3	50.8	21.7	180.6	n/a	95.2	24.2	83.4	2.2
	3	3154.3	59.7	20.4	171.7	n/a	100.4	26.1	90.9	2.2
	4	2955.5	43.3	10.2	197.3	n/a	96.8	23.8	81.8	2.2
	5	3697.2	60.5	32.7	138.1	n/a	72.0	19.9	64.7	2.0
	mean	3231.7	54.8	25.5	200.5	n/a	90.4	27.8	89.0	2.5
10	1	3449.0	56.8	34.3	261.1	n/a	129.3	27.2	103.0	2.4
	2	3226.0	51.1	22.1	210.1	n/a	115.6	26.3	99.1	2.0
	3	3359.2	53.4	24.3	229.6	n/a	126.4	28.7	98.9	2.3
	4	3400.1	64.9	30.5	208.0	10.0	102.1	25.1	84.9	2.4
	5	3270.5	55.5	28.0	202.2	n/a	121.7	29.7	100.1	2.2
	mean	3341.0	56.3	27.8	222.2	10.0	119.0	27.4	97.2	2.3
12	1	3659.8	59.6	21.9	185.2	5.2	75.4	24.3	81.6	2.1
	2	4109.6	82.8	38.5	178.0	15.9	86.9	21.3	66.1	2.1
	3	3991.3	62.8	35.4	254.7	n/a	99.6	24.3	82.3	2.2
	4	3263.3	82.4	30.2	157.5	n/a	70.0	19.9	64.6	1.8
	5	3310.9	58.8	24.8	148.5	n/a	79.2	21.9	73.1	1.7
	mean	3667.0	69.3	30.2	184.8	10.5	82.2	22.4	73.5	2.0
14	1	3820.2	73.6	25.4	201.7	1.8	101.9	25.2	89.6	2.3
	2	3824.4	74.2	28.6	176.2	6.7	90.0	24.3	84.9	2.1
	3	3449.5	57.9	20.3	207.4	3.9	105.3	25.3	97.6	2.2
	4	4080.9	89.5	38.3	135.6	1.2	48.0	17.4	49.7	2.0
	5	3420.0	56.4	31.8	191.8	n/a	108.0	27.4	92.3	2.2
	mean	3719.0	70.3	28.9	182.5	3.4	90.6	24.9	82.8	2.2

Table S3 *cont.*

16	1	3613.9	58.1	29.8	173.7	n/a	58.6	20.4	64.4	2.0
	2	3515.4	63.8	28.8	143.5	n/a	88.5	24.1	77.3	2.1
	3	3926.6	80.0	27.8	130.9	n/a	47.0	19.1	56.5	1.9
	4	3282.7	59.6	34.3	186.8	14.5	74.3	21.1	66.3	1.9
	5	3956.7	73.7	37.5	187.5	25.8	85.0	23.9	85.6	2.2
	mean	3659.1	67.1	31.6	164.5	20.2	70.7	21.7	70.0	2.0
18	1	4049.2	86.0	35.4	129.6	18.5	34.0	10.9	29.5	2.1
	2	4043.5	87.8	39.3	99.5	31.6	30.5	14.4	36.1	1.7
	3	3971.8	64.0	35.0	139.5	27.5	39.5	10.9	36.5	2.3
	4	5331.7	105.9	73.7	123.7	42.0	24.4	5.0	16.9	2.9
	5	4571.1	84.1	44.3	107.3	25.7	26.9	10.7	29.8	1.7
	mean	4393.4	85.6	45.5	119.9	29.1	31.1	10.4	29.8	2.1
20	1	5252.9	110.2	63.2	235.5	41.4	35.7	11.8	30.1	2.9
	2	5474.5	112.4	68.2	180.2	42.0	24.4	4.3	11.0	3.6
	3	5364.9	112.7	75.4	300.2	35.7	37.4	11.0	29.3	2.7
	4	4111.8	85.5	33.8	146.8	17.7	45.1	15.4	40.3	2.0
	5	5349.5	112.1	76.2	122.4	41.8	26.5	2.0	12.5	3.0
	mean	5110.7	106.6	63.4	197.0	35.7	33.8	8.9	24.6	2.9
22	1	5392.6	109.6	63.5	165.6	39.8	23.7	2.8	7.9	3.4
	2	4969.1	93.5	46.7	104.5	23.5	20.6	1.2	5.3	2.7
	3	5296.4	112.7	64.6	154.5	25.4	23.0	4.3	7.3	3.1
	4	4875.0	102.3	63.2	141.8	37.5	29.4	6.0	23.5	2.6
	5	5302.9	110.5	63.8	99.6	36.6	25.8	0.3	13.4	2.7
	mean	5167.2	105.7	60.4	133.2	32.6	24.5	2.9	11.5	2.9
24	1	5194.8	106.6	58.3	129.5	36.9	26.5	2.4	14.1	2.6
	2	5392.9	102.7	70.8	129.0	42.1	25.7	1.7	12.1	3.4
	3	5327.1	117.5	78.6	106.7	42.0	27.4	n/a	9.4	3.0
	4	5418.7	107.6	78.5	159.8	41.3	31.3	7.2	16.6	2.8
	5	5474.9	112.8	75.8	160.7	39.3	25.8	1.5	8.3	3.4
	mean	5361.7	109.4	72.4	137.1	40.3	27.3	3.2	12.1	3.0
26	1	5451.5	111.2	67.1	109.3	39.1	24.5	0.2	10.6	2.6
	2	5054.3	98.0	50.8	123.8	35.7	21.7	3.6	12.0	2.6
	3	5465.7	111.4	63.5	130.9	41.8	22.1	n/a	8.6	2.8
	4	5321.2	104.9	68.2	116.8	41.3	23.4	2.7	13.5	2.7
	5	5308.6	112.6	61.6	113.7	33.9	25.8	n/a	7.4	2.8
	mean	5320.3	107.6	62.2	118.9	38.4	23.5	2.2	10.4	2.7
28	1	5322.9	111.5	60.3	96.4	36.7	19.3	n/a	8.5	2.6
	2	5310.1	111.2	56.8	65.0	30.3	15.9	0.8	8.9	2.1
	3	5427.1	115.8	52.3	110.4	42.6	23.3	n/a	8.1	3.0
	4	5362.2	116.5	59.5	112.2	38.5	24.5	n/a	7.8	3.1
	5	5279.9	110.4	59.2	88.8	40.6	19.9	n/a	3.1	2.4
	mean	5340.5	113.1	57.6	94.6	37.7	20.6	0.8	7.3	2.6

Table S4

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-22 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2540.2	35.2	8.7	517.7	n/a	120.6	24.3	88.8	2.2
	2	1677.1	9.6	n/a	431.7	n/a	84.5	18.8	78.1	1.0
	3	2799.3	49.1	26.1	599.8	7.8	127.8	27.6	100.2	2.5
	4	2638.8	35.3	20.8	538.4	n/a	127.2	24.1	88.5	2.3
	5	2601.2	30.8	20.6	441.2	n/a	109.0	24.2	96.0	2.1
	mean	2451.3	32.0	19.0	505.8	7.8	113.8	23.8	90.3	2.0
4	1	3011.0	40.5	24.9	576.1	2.9	132.5	29.4	106.9	2.4
	2	2974.2	37.9	26.6	526.1	6.1	130.8	28.5	103.0	2.5
	3	3219.9	63.4	27.2	593.4	n/a	138.9	32.2	103.8	2.6
	4	3277.7	55.2	39.5	621.1	24.0	143.2	32.6	110.2	2.6
	5	3276.9	53.2	35.2	581.1	6.3	134.5	32.5	111.7	2.7
	mean	3151.9	50.1	30.7	579.6	9.8	136.0	31.1	107.1	2.6
6	1	3332.6	52.6	34.6	697.5	28.2	150.9	33.6	111.9	2.6
	2	3380.2	62.2	29.1	614.4	16.3	116.5	24.3	83.1	2.5
	3	3480.0	57.0	29.9	642.1	10.5	148.6	36.9	112.1	2.7
	4	3801.4	65.5	33.2	792.2	33.0	134.3	31.1	100.7	2.7
	5	3943.0	77.2	41.9	624.3	15.6	127.6	25.0	87.2	2.6
	mean	3587.4	62.9	33.8	674.1	20.7	135.6	30.2	99.0	2.6
8	1	4100.1	81.8	41.9	661.1	19.8	108.6	25.4	83.9	2.7
	2	4123.6	89.6	35.9	535.9	33.8	80.3	20.7	66.6	2.3
	3	3407.0	55.9	36.1	520.2	6.0	113.7	25.1	91.8	2.5
	4	3227.1	54.6	41.4	502.4	17.8	105.1	23.2	79.2	2.3
	5	4026.8	60.8	36.7	565.5	25.0	111.7	26.2	86.1	2.5
	mean	3776.9	68.5	38.4	531.0	20.5	103.9	24.1	81.5	2.4
10	1	3542.3	66.4	33.8	477.9	17.7	71.4	18.7	49.2	2.3
	2	3728.6	61.8	35.6	616.6	21.8	64.3	19.2	53.6	2.3
	3	4381.4	100.5	35.8	399.2	36.1	42.5	9.0	28.5	2.2
	4	4044.1	94.6	40.1	529.5	28.7	49.6	15.3	34.8	2.3
	5	4213.1	92.2	41.1	354.2	35.4	41.0	11.3	30.3	2.2
	mean	3981.9	83.1	37.3	475.5	24.3	53.8	14.7	39.3	2.3
12	1	4830.0	102.4	55.8	517.5	29.6	41.0	11.1	29.2	2.4
	2	4624.7	99.0	36.4	573.7	33.3	61.6	15.4	36.4	2.4
	3	4788.1	109.9	50.2	442.6	29.8	41.5	11.3	29.4	2.3
	4	4997.0	105.5	42.6	550.8	35.3	51.8	15.0	35.6	2.5
	5	4222.2	97.3	59.9	609.3	34.7	95.0	20.3	59.0	2.7
	mean	4692.4	102.8	49.0	538.8	32.5	58.2	14.6	37.9	2.5
14	1	4627.5	98.8	48.0	602.8	26.9	36.2	10.4	28.3	2.4
	2	4441.3	89.0	52.7	532.2	36.4	46.3	10.6	30.6	2.4
	3	4334.7	98.6	43.7	586.0	21.6	35.9	11.2	28.0	2.3
	4	4121.4	80.9	48.7	643.9	20.6	45.5	15.3	34.2	2.4
	5	4937.0	109.4	57.1	961.4	35.0	36.7	7.9	19.5	2.4
	mean	4492.4	95.3	50.1	665.3	28.1	40.1	11.1	28.1	2.4

Table S4 *cont.*

16	1	5072.7	104.6	58.8	308.0	31.6	31.3	1.8	9.2	2.2
	2	5334.5	104.8	58.3	517.0	44.9	37.0	5.5	11.5	2.8
	3	4940.8	111.0	60.3	328.8	38.6	31.3	0.3	9.6	2.3
	4	5251.1	108.9	54.1	674.8	43.1	34.8	4.0	21.5	2.4
	5	5239.8	112.4	57.5	388.7	30.6	32.7	0.3	10.1	2.3
	mean	5167.8	108.3	57.8	443.5	37.8	33.4	2.4	12.4	2.4
18	1	4947.2	110.1	69.8	398.5	17.9	32.8	2.2	10.4	2.5
	2	5295.4	103.3	53.6	478.7	34.5	35.2	0.3	13.8	2.5
	3	5350.8	107.9	64.8	405.6	39.2	35.4	0.5	8.2	2.5
	4	4779.8	105.8	53.2	749.5	29.8	34.7	1.9	15.6	2.7
	5	5280.8	113.0	56.3	535.2	39.3	37.5	1.7	12.2	2.5
	mean	5130.8	108.0	59.5	513.5	32.1	35.1	1.3	12.0	2.5
20	1	4484.3	94.0	52.7	507.7	16.9	39.1	4.9	11.1	2.5
	2	5345.0	110.6	61.8	805.8	42.4	38.5	2.6	12.9	2.6
	3	4503.3	108.3	65.6	593.1	35.5	47.4	10.7	29.4	2.7
	4	5311.2	109.8	48.3	817.2	39.2	34.6	2.0	9.9	2.6
	5	5033.9	111.6	65.9	630.4	40.6	42.7	10.6	31.4	2.6
	mean	4935.5	106.8	58.9	670.8	34.9	40.4	6.2	18.9	2.6
22	1	5333.1	113.5	57.7	918.2	36.4	35.5	1.3	11.5	2.6
	2	4872.2	104.4	58.4	932.5	35.5	32.0	1.2	9.8	2.4
	3	5291.8	105.1	61.5	640.0	37.0	31.3	1.1	7.1	2.5
	4	5303.7	112.6	49.9	652.0	40.6	32.1	2.4	9.8	2.5
	5	4987.2	107.3	61.7	860.6	34.0	35.9	0.5	10.0	2.5
	mean	5157.6	108.6	57.8	800.7	36.7	33.4	1.3	9.7	2.5
24	1	5190.9	104.3	48.5	546.7	38.4	33.6	n/a	10.9	2.4
	2	4886.3	105.6	43.9	551.3	35.7	33.0	n/a	8.3	2.3
	3	5284.8	99.1	47.0	634.5	25.0	35.1	1.0	9.6	2.5
	4	4977.9	94.3	66.6	476.7	40.4	34.8	1.1	8.6	2.4
	5	4977.8	111.6	52.4	503.8	41.6	27.2	n/a	7.4	2.2
	mean	5063.5	103.0	51.7	542.6	36.2	32.7	1.1	8.9	2.4
26	1	5304.0	106.3	52.3	441.7	36.2	31.9	2.6	5.4	2.4
	2	4781.7	95.3	42.6	387.4	36.3	28.8	1.0	12.6	2.2
	3	4969.8	109.6	73.7	358.2	43.0	32.5	n/a	9.7	2.2
	4	4843.9	101.5	52.8	524.1	19.0	29.9	n/a	10.5	2.1
	5	4779.1	113.0	70.3	383.9	34.8	34.6	0.5	7.0	2.2
	mean	4935.7	105.1	58.3	419.1	33.9	31.5	1.4	9.0	2.2
28	1	4891.4	95.5	57.9	365.0	35.9	30.3	n/a	7.3	2.2
	2	4725.2	105.1	44.8	558.3	37.4	31.0	1.5	10.3	2.3
	3	5043.8	101.0	59.3	526.5	37.8	32.4	2.9	12.2	2.4
	4	4862.9	99.3	61.7	386.2	35.4	33.2	n/a	11.8	2.1
	5	4575.1	105.0	55.3	460.9	12.9	33.0	n/a	6.8	2.1
	mean	4819.7	101.2	55.8	459.4	31.9	32.0	2.2	9.7	2.2
30	1	4333.0	107.7	51.6	405.5	26.1	34.2	n/a	11.2	2.1
	2	4589.2	104.8	57.8	428.4	33.1	39.8	n/a	14.6	2.1
	3	4523.9	97.4	46.8	574.4	41.9	30.7	n/a	6.1	2.0
	4	4501.9	85.7	67.6	508.2	32.6	35.2	n/a	8.7	2.2
	5	4387.9	97.7	66.3	459.4	33.1	34.9	n/a	8.5	2.1
	mean	4467.2	98.7	58.0	475.2	33.4	35.0	n/a	9.8	2.1

Table S5

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-27 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2411.6	32.0	15.6	297.7	n/a	163.6	31.9	111.0	2.5
	2	2356.2	24.9	8.8	300.4	n/a	149.5	34.0	107.2	2.4
	3	2548.2	32.8	17.9	312.7	n/a	166.5	32.8	103.3	2.5
	4	2419.6	25.2	8.7	266.2	n/a	188.2	38.2	117.9	2.5
	5	1802.8	4.0	n/a	189.2	n/a	113.3	23.2	88.1	1.6
	mean	2433.9	28.7	12.8	294.3	n/a	167.0	34.2	109.8	2.5
4	1	2574.5	42.0	15.6	337.8	n/a	148.8	35.2	104.7	2.4
	2	2698.0	38.8	25.2	360.4	n/a	176.2	34.8	114.5	2.5
	3	2659.3	34.9	12.4	293.0	n/a	133.4	33.3	105.7	2.3
	4	2853.3	34.5	24.0	335.2	n/a	171.0	34.5	112.0	2.6
	5	2751.6	37.0	15.9	313.4	n/a	129.7	26.5	97.9	2.2
	mean	2707.3	37.4	18.6	327.9	n/a	151.8	32.8	106.9	2.4
6	1	2910.9	50.1	26.0	355.2	n/a	159.8	34.4	103.6	2.6
	2	3146.6	56.0	20.6	332.0	n/a	142.9	33.4	104.2	2.6
	3	3243.9	62.6	32.1	302.0	0.3	125.3	26.3	90.9	2.5
	4	3215.0	63.3	31.6	342.7	13.2	155.7	32.8	103.4	2.6
	5	3096.4	49.2	23.5	292.1	1.4	131.5	27.3	96.7	2.4
	mean	3122.6	56.2	26.8	324.8	4.9	143.1	30.8	99.8	2.5
8	1	3590.1	59.5	28.4	307.4	n/a	74.3	22.8	65.7	2.5
	2	3707.5	75.9	26.9	232.7	5.3	74.9	22.3	68.6	2.3
	3	3729.0	60.4	32.3	343.5	32.3	87.6	25.9	74.0	2.6
	4	4023.4	83.7	32.1	217.0	24.0	48.6	19.0	47.8	2.3
	5	3661.2	81.1	33.5	252.3	20.3	91.9	22.4	66.9	2.4
	mean	3742.2	72.1	30.7	270.6	20.5	75.5	22.5	64.6	2.4
10	1	3707.8	63.1	30.7	169.8	4.3	99.4	21.2	61.3	2.3
	2	3191.4	55.7	26.4	256.0	n/a	128.4	25.5	88.7	2.5
	3	3999.1	87.6	32.6	185.6	12.8	49.7	17.8	46.3	2.2
	4	3962.0	80.3	30.6	186.6	13.4	77.4	19.0	45.3	2.3
	5	3533.5	63.1	34.5	257.1	n/a	104.3	23.0	74.7	2.4
	mean	3678.8	70.0	31.0	211.0	10.2	91.9	21.3	63.2	2.4
12	1	4395.0	95.2	44.6	251.4	12.8	42.5	15.2	34.6	2.5
	2	5326.2	109.1	70.3	168.2	29.7	26.5	5.0	14.9	2.8
	3	4204.3	91.8	45.3	158.8	10.6	43.6	15.0	36.5	2.3
	4	4821.0	102.3	45.9	200.0	10.4	32.8	9.8	24.5	2.4
	5	5332.7	113.1	65.0	128.1	41.4	26.7	1.9	11.1	2.7
	mean	4815.8	102.3	54.2	181.3	21.0	34.4	9.4	24.3	2.6
14	1	5112.1	107.0	67.2	139.2	35.8	24.8	0.6	12.9	2.5
	2	4788.1	103.0	45.9	152.2	27.7	23.3	1.3	9.2	1.8
	3	4011.2	81.7	35.1	190.2	30.5	62.0	15.0	36.7	2.5
	4	4891.5	101.2	45.4	206.0	11.8	23.6	4.8	10.1	2.2
	5	5006.8	104.8	48.9	126.4	37.2	23.3	2.3	9.3	2.3
	mean	4761.9	99.5	48.5	162.8	28.6	31.4	4.8	15.6	2.3

Table S5 *cont.*

16	1	4267.0	85.2	39.9	100.2	27.9	24.1	8.3	20.2	1.7
	2	4268.3	90.0	48.9	120.8	34.3	25.0	9.3	24.3	2.2
	3	4139.7	82.3	40.8	176.7	14.3	32.0	9.9	26.3	2.2
	4	4247.5	88.7	43.2	106.6	24.6	25.8	7.3	17.9	2.0
	5	4176.1	80.7	49.0	116.9	26.9	24.0	8.3	22.3	1.7
	mean	4219.7	85.4	44.3	124.2	25.6	26.2	8.6	22.2	2.0
18	1	4185.1	83.0	42.8	180.2	10.8	25.8	8.6	19.7	2.3
	2	3167.3	66.1	29.9	122.0	n/a	19.5	2.4	24.3	1.5
	3	4154.7	83.5	37.5	164.5	10.2	26.3	8.8	24.6	2.2
	4	3979.5	85.1	34.8	195.4	26.8	25.9	8.7	21.9	2.4
	5	4778.8	98.6	48.1	243.0	36.4	29.6	9.4	22.7	2.6
	mean	4053.1	83.3	38.6	181.0	21.1	25.4	7.6	22.7	2.2
20	1	4765.2	98.6	45.0	316.3	36.1	29.0	n/a	12.0	2.4
	2	4751.7	104.5	65.1	373.0	15.2	25.4	4.0	10.1	2.8
	3	5137.0	105.3	62.6	448.0	21.8	26.9	7.1	14.7	2.6
	4	4742.5	98.9	56.8	465.0	35.5	25.5	7.7	19.7	2.4
	5	5307.1	105.0	50.8	213.4	41.6	26.1	n/a	4.4	2.3
	mean	4940.7	102.5	56.0	363.1	30.1	26.6	6.3	12.2	2.5
22	1	4931.1	106.6	49.7	136.8	35.4	26.0	n/a	11.6	2.2
	2	4568.6	96.6	58.9	167.3	33.3	22.8	1.9	8.8	2.2
	3	5000.1	96.6	54.0	133.2	42.0	26.6	n/a	7.9	1.9
	4	4649.2	103.7	61.1	175.2	42.4	22.3	n/a	12.8	1.9
	5	4669.9	102.6	62.0	119.4	32.9	23.9	n/a	8.7	2.2
	mean	4763.8	101.2	57.2	146.4	37.2	24.3	1.9	10.0	2.1
24	1	4964.2	102.8	45.4	135.2	23.2	25.2	2.2	15.6	2.2
	2	5276.2	108.2	61.1	196.1	42.1	26.1	7.0	10.3	3.9
	3	5245.7	107.7	46.8	126.7	38.8	23.0	0.0	11.4	2.8
	4	4652.4	99.1	50.2	94.0	35.7	21.9	n/a	12.8	2.0
	5	4213.1	101.2	48.1	150.9	20.4	36.0	9.7	24.2	2.4
	mean	4870.3	103.8	50.3	140.6	32.1	26.4	4.7	14.8	2.7
26	1	4842.2	106.7	71.8	122.4	22.7	21.4	0.6	7.4	2.6
	2	5068.6	105.9	44.8	163.6	27.8	20.2	n/a	5.7	2.0
	3	5112.6	107.5	67.9	173.1	37.8	23.9	1.2	4.2	2.6
	4	4511.4	89.2	41.7	111.6	24.6	22.5	n/a	4.7	1.8
	5	5099.6	106.4	75.8	154.2	32.7	25.8	0.3	11.2	3.1
	mean	4926.9	103.2	60.4	145.0	29.1	22.8	0.7	6.6	2.4
28	1	5333.8	110.5	75.8	216.0	26.4	25.0	3.0	5.6	3.9
	2	4863.8	108.6	56.2	141.3	35.8	26.2	n/a	7.5	3.2
	3	4700.9	105.4	64.2	94.7	19.9	25.4	n/a	5.4	2.7
	4	5063.1	111.8	78.9	142.3	44.3	22.4	1.3	6.0	3.3
	5	5381.3	102.4	79.9	294.7	31.7	29.0	1.5	11.8	3.9
	mean	5068.6	107.7	71.0	177.8	31.6	25.6	1.9	7.3	3.4
30	1	5282.8	107.8	70.1	186.1	35.9	28.5	n/a	7.9	3.7
	2	5282.4	106.3	79.4	184.4	41.3	31.9	1.7	6.3	3.6
	3	5480.1	119.5	89.5	404.7	42.4	33.4	6.0	12.2	4.5
	4	5149.3	111.3	56.1	162.6	31.3	24.2	n/a	11.9	3.6
	5	5315.9	114.7	63.7	155.9	42.9	26.1	0.7	5.9	3.7
	mean	5302.1	111.9	71.8	218.7	38.8	28.8	2.8	8.9	3.8

Table S6

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-34 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3854.8	63.8	38.8	493.8	12.8	135.3	25.0	90.0	3.0
	2	3838.5	62.5	32.5	543.8	18.8	147.4	27.7	91.8	3.2
	3	3289.9	62.8	38.4	537.8	12.2	136.6	25.6	89.4	2.9
	4	3914.5	78.1	47.5	575.9	20.5	140.7	27.0	93.8	3.2
	5	3101.4	43.7	20.8	448.1	n/a	132.7	22.2	80.9	2.7
	mean	3599.8	62.2	35.6	519.9	16.0	138.5	25.5	89.2	3.0
4	1	4200.4	84.4	36.1	544.8	40.5	159.7	26.6	90.6	3.4
	2	4066.3	80.0	43.7	501.9	12.2	137.8	25.5	87.1	3.2
	3	4445.6	88.9	46.6	570.7	22.9	145.7	28.8	96.5	3.5
	4	4075.5	86.3	44.8	526.9	24.0	157.2	27.6	90.3	3.3
	5	3879.7	66.0	42.8	553.2	13.1	154.6	27.0	89.6	3.3
	mean	4133.5	81.1	42.8	539.5	22.5	151.0	27.1	90.8	3.3
6	1	2801.5	52.0	19.5	400.3	n/a	123.9	21.3	81.1	2.5
	2	1330.0	7.5	n/a	135.0	n/a	50.7	10.8	46.1	0.2
	3	3212.0	54.9	27.8	375.9	n/a	117.7	20.8	65.6	2.6
	4	2970.2	46.1	24.0	437.2	6.7	128.1	21.9	82.3	2.6
	5	3962.4	89.5	36.4	564.7	24.8	136.0	24.8	89.7	3.2
	mean	2855.2	50.0	26.9	382.6	15.7	111.3	19.9	72.9	2.2
8	1	4737.6	103.9	44.6	451.5	28.6	97.7	19.0	44.8	3.2
	2	4121.3	84.4	44.7	537.6	18.7	140.5	25.2	83.8	3.2
	3	4752.1	89.6	43.6	640.5	7.9	111.9	21.1	69.8	3.3
	4	4111.3	83.4	36.5	537.5	13.8	125.1	22.6	73.8	3.2
	5	4343.5	88.9	40.5	520.7	33.1	129.7	24.9	85.1	3.2
	mean	4413.1	90.1	42.0	537.6	20.4	121.0	22.6	71.5	3.2
10	1	5328.9	109.9	45.6	427.1	36.0	55.2	15.1	33.0	3.1
	2	4978.7	96.9	45.9	578.8	36.6	108.5	18.6	52.6	3.2
	3	5402.3	104.8	60.4	384.3	44.7	46.7	9.7	23.0	3.3
	4	4920.9	99.3	55.6	546.1	36.8	84.7	18.8	50.6	3.2
	5	5135.6	100.0	42.9	536.4	35.2	117.3	20.3	57.5	3.4
	mean	5153.3	102.2	50.1	494.5	37.9	82.5	16.5	43.3	3.2
12	1	4949.9	95.8	62.5	469.5	41.7	96.6	16.7	42.9	3.1
	2	4226.7	85.7	43.3	395.2	35.1	94.2	19.0	51.8	3.1
	3	3877.0	84.7	40.6	389.8	34.7	109.5	18.4	56.7	3.0
	4	5292.1	110.3	65.1	543.6	39.8	96.4	17.4	36.1	3.2
	5	4172.2	89.1	47.1	423.4	18.0	95.2	18.2	53.0	3.0
	mean	4503.6	93.1	51.7	444.3	33.9	98.4	17.9	48.1	3.1
14	1	4399.2	85.2	40.4	423.2	13.9	99.2	18.8	54.0	3.1
	2	5415.9	104.6	43.5	384.5	41.0	44.5	10.2	24.5	3.3
	3	5273.0	113.9	38.7	496.3	35.2	47.7	13.6	32.4	3.2
	4	5324.0	112.8	55.6	435.7	23.5	38.0	8.5	15.1	3.0
	5	4146.7	93.8	39.1	433.9	34.4	104.6	19.7	59.9	3.1
	mean	4911.8	102.0	43.5	434.7	29.6	66.8	14.2	37.2	3.1

Table S6 *cont.*

16	1	5410.5	111.9	76.9	941.5	39.1	39.7	10.5	24.6	3.5
	2	5452.1	112.4	76.9	369.1	38.4	44.8	9.5	20.2	3.0
	3	5354.5	113.8	60.5	496.9	25.0	46.6	11.5	30.3	3.1
	4	5334.7	106.0	54.9	473.0	36.0	39.5	5.1	14.2	2.9
	5	5371.3	107.1	63.8	475.9	29.5	46.8	11.8	28.5	3.1
	mean	5384.6	110.3	66.6	551.3	33.6	43.5	9.7	23.6	3.1
18	1	5429.0	109.8	84.0	368.7	40.4	34.0	4.2	9.7	3.2
	2	5380.6	102.8	52.5	399.2	39.4	29.2	0.8	10.6	2.8
	3	5421.2	111.4	72.5	392.0	43.8	40.7	8.6	17.0	3.3
	4	5367.4	108.5	52.5	452.6	34.9	35.9	3.6	11.7	3.1
	5	5502.1	113.1	76.7	396.3	41.5	41.2	7.1	15.7	3.1
	mean	5420.1	109.1	67.7	401.8	40.0	36.2	4.9	12.9	3.1
20	1	5359.9	106.2	62.9	537.8	41.7	39.5	4.8	14.7	3.2
	2	5310.6	107.7	42.4	432.4	17.7	30.8	5.0	12.4	2.7
	3	5350.5	106.4	71.0	364.7	29.3	36.3	5.0	13.9	2.9
	4	5318.3	112.8	78.5	332.4	38.6	34.9	1.4	10.0	2.9
	5	5276.9	113.0	59.6	315.2	33.0	31.8	1.8	8.5	2.9
	mean	5323.2	109.2	62.9	396.5	32.1	34.7	3.6	11.9	2.9
22	1	4911.8	106.7	61.1	393.2	39.0	29.7	0.6	13.4	2.5
	2	5327.5	113.6	64.6	497.1	43.3	30.7	6.8	16.2	3.5
	3	5493.1	115.9	74.6	723.3	37.6	32.0	4.3	16.5	3.3
	4	5443.7	114.8	68.7	584.0	41.6	32.9	7.0	9.2	3.1
	5	5501.0	119.2	76.1	594.6	43.1	38.0	7.2	11.7	3.3
	mean	5335.4	114.0	69.0	558.4	40.9	32.7	5.2	13.4	3.2
24	1	5427.3	112.6	72.2	473.7	39.0	34.6	2.4	14.5	2.8
	2	5388.1	114.7	67.6	372.6	45.3	34.6	4.0	12.7	2.9
	3	5360.7	114.0	55.3	322.0	36.4	32.7	0.0	8.5	2.9
	4	5163.4	107.6	49.1	288.0	25.0	34.3	7.5	19.1	2.6
	5	5341.1	107.7	65.1	278.7	33.8	32.0	3.4	11.6	2.9
	mean	5336.1	111.3	61.8	347.0	35.9	33.6	3.5	13.3	2.8
26	1	5317.7	111.6	45.9	424.7	29.3	37.5	2.0	10.8	2.5
	2	5398.6	106.6	55.4	340.4	17.9	28.1	2.5	9.5	2.5
	3	5295.1	107.6	50.0	377.8	44.5	37.0	2.7	18.3	2.6
	4	5395.4	115.3	68.8	386.3	41.5	31.8	1.9	14.6	2.6
	5	5331.5	100.1	45.2	448.3	43.0	32.0	3.7	13.3	2.5
	mean	5347.6	108.2	53.1	395.5	35.3	33.3	2.5	13.3	2.5
28	1	5274.4	106.7	41.8	367.5	40.7	35.3	0.2	9.0	2.5
	2	5336.1	107.9	62.9	362.9	40.2	31.1	2.1	6.7	2.7
	3	5435.2	108.1	61.0	504.5	46.0	29.3	3.8	8.7	2.7
	4	5193.7	107.5	64.0	517.2	42.0	36.1	5.4	13.4	2.7
	5	5364.4	111.6	72.4	470.9	32.5	28.6	3.6	6.5	2.6
	mean	5320.8	108.3	60.4	444.6	40.3	32.1	3.0	8.9	2.6
30	1	5426.2	118.3	66.1	229.7	41.1	31.2	0.1	10.7	2.3
	2	5250.0	111.5	60.9	223.5	36.8	28.9	n/a	9.4	2.2
	3	5431.7	115.0	59.3	235.4	43.1	27.8	n/a	6.7	2.3
	4	5284.4	112.0	58.8	210.4	42.9	23.3	1.0	11.8	2.2
	5	5271.2	116.0	55.2	269.3	29.5	26.8	n/a	9.2	2.2
	mean	5332.7	114.6	60.0	233.7	38.7	27.6	0.5	9.6	2.2

Table S7

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-35 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3271.1	59.5	26.2	820.0	n/a	47.4	16.2	36.3	2.6
	2	3081.7	39.4	26.6	748.4	n/a	44.3	15.8	33.4	2.6
	3	3264.5	58.8	25.3	888.8	19.2	47.7	16.8	39.8	2.7
	4	3112.9	48.1	26.1	738.0	n/a	44.8	15.5	36.6	2.6
	5	3523.5	55.1	34.2	806.3	6.1	49.4	16.8	34.5	2.7
	mean	3250.7	52.1	27.7	800.3	12.6	46.7	16.2	36.1	2.6
4	1	2938.8	49.0	24.7	672.2	n/a	50.8	16.0	46.5	2.5
	2	2880.2	46.7	29.3	606.8	8.5	45.8	15.4	44.8	2.3
	3	3233.6	53.1	29.7	790.4	n/a	49.9	17.8	41.0	2.8
	4	3762.3	63.4	48.6	890.6	17.9	50.9	17.7	42.9	2.8
	5	3067.9	48.8	27.0	647.2	n/a	46.9	16.3	45.5	2.3
	mean	3176.6	52.2	31.9	721.4	13.2	48.8	16.6	44.1	2.5
6	1	3922.2	86.6	37.7	553.6	7.9	69.5	17.5	46.6	2.9
	2	3284.5	55.7	23.8	688.8	n/a	47.6	17.6	37.7	2.6
	3	4260.5	83.9	45.1	457.1	34.9	88.9	18.5	53.6	3.1
	4	4037.6	82.3	46.8	1136.1	37.9	89.2	22.6	54.5	3.4
	5	3882.6	87.0	43.7	559.8	23.5	88.3	19.7	60.7	3.0
	mean	3877.5	79.1	39.4	679.1	26.1	76.7	19.2	50.6	3.0
8	1	3845.6	84.8	39.5	876.3	19.2	77.7	19.5	53.2	3.0
	2	3462.7	67.3	29.7	673.4	4.3	70.6	19.5	49.2	2.8
	3	4213.1	87.4	45.7	972.7	23.5	68.6	16.5	39.6	3.0
	4	3450.0	64.9	25.7	722.6	6.0	71.2	18.9	49.7	2.8
	5	4131.2	88.4	51.6	831.1	30.7	50.4	15.4	39.8	2.8
	mean	3820.5	78.6	38.4	815.2	16.8	67.7	18.0	46.3	2.9
10	1	3540.9	60.0	42.1	910.5	21.8	94.2	22.8	69.6	3.0
	2	3933.5	68.9	40.8	1372.3	22.6	78.8	22.7	60.5	3.8
	3	3269.5	60.5	35.3	772.5	0.5	76.0	21.9	66.1	3.0
	4	4035.4	61.3	41.4	879.4	13.3	69.4	19.7	55.2	3.0
	5	3667.9	63.9	40.2	792.1	1.9	93.0	24.0	70.1	3.6
	mean	3689.4	62.9	39.9	945.4	14.1	82.3	22.2	64.3	3.3
12	1	4185.4	87.6	46.5	796.4	11.1	50.0	16.1	36.9	2.8
	2	3873.2	77.9	39.8	800.6	17.0	34.1	15.7	36.7	2.7
	3	3197.4	51.1	35.8	624.6	n/a	40.1	14.6	41.1	2.3
	4	3631.8	77.2	40.5	899.2	17.6	43.4	15.9	37.0	2.7
	5	4086.6	74.2	34.2	750.8	8.7	65.7	19.1	39.3	2.9
	mean	3794.9	73.6	39.4	774.3	13.6	46.6	16.3	38.2	2.7
14	1	4750.0	99.6	64.4	898.7	16.5	21.2	10.6	19.4	2.8
	2	4437.1	96.7	58.9	779.1	n/a	30.6	11.1	26.4	2.8
	3	4469.5	91.0	57.8	963.7	19.1	23.8	11.2	27.3	2.7
	4	4853.1	106.1	51.7	757.7	8.2	23.3	9.6	15.5	2.7
	5	4271.0	100.3	52.0	712.8	n/a	23.0	9.8	22.8	2.8
	mean	4556.1	98.7	57.0	822.4	14.6	24.4	10.5	22.3	2.8

***Table S7** cont.*

16	1	5271.1	110.1	54.9	552.8	36.4	22.1	7.4	8.8	2.8
	2	5312.6	105.5	45.6	1041.9	30.1	23.7	10.4	17.2	3.0
	3	5141.2	104.6	73.2	731.5	33.3	22.9	6.3	11.9	2.9
	4	5357.4	116.0	55.3	816.7	36.9	23.8	7.3	9.8	2.9
	5	5285.4	96.2	58.0	698.2	41.0	25.7	7.0	11.2	2.8
	mean	5273.6	106.5	57.4	768.2	35.5	23.6	7.7	11.8	2.9
18	1	4741.6	112.4	36.7	702.7	30.5	24.6	7.6	14.0	2.8
	2	4466.8	101.3	45.8	1043.5	37.2	34.3	12.6	28.5	2.9
	3	4903.7	97.6	52.7	643.9	26.5	17.1	5.5	8.2	2.7
	4	5299.9	105.1	50.9	705.3	35.0	26.8	6.8	8.5	2.8
	5	4860.6	107.1	64.6	764.8	36.5	21.6	7.1	9.0	2.8
	mean	4854.5	104.7	50.1	772.0	33.1	24.9	7.9	13.7	2.8
20	1	4651.1	105.6	58.2	498.4	26.0	21.4	3.3	6.4	2.7
	2	4890.5	104.9	47.0	447.0	23.2	19.1	4.7	8.1	2.8
	3	4597.5	99.1	44.8	600.2	30.5	20.3	5.0	6.7	2.7
	4	4936.4	113.7	64.3	373.8	15.3	17.9	3.5	7.2	2.8
	5	4936.4	113.7	64.3	373.8	15.3	17.9	3.5	7.2	2.8
	mean	4802.4	107.4	55.7	458.7	22.1	19.3	4.0	7.1	2.7
22	1	5170.9	110.1	68.9	1004.4	38.5	21.8	6.5	13.0	2.9
	2	5264.7	101.0	59.6	707.9	13.7	24.6	3.5	3.8	2.7
	3	4859.3	106.5	46.8	1004.9	40.6	22.8	5.3	12.5	2.8
	4	4702.9	103.6	62.0	1195.9	29.0	21.6	4.2	8.1	2.8
	5	5291.2	106.9	64.6	1020.0	27.8	20.9	5.8	11.9	2.9
	mean	5057.8	105.6	60.4	986.6	29.9	22.3	5.0	9.9	2.8
24	1	5041.5	106.4	57.1	746.8	26.6	20.6	3.1	3.6	2.7
	2	5306.5	111.5	75.1	663.1	25.2	24.2	3.4	5.8	3.1
	3	5298.9	100.5	64.5	897.5	37.6	28.4	2.7	8.6	2.9
	4	5235.2	112.6	53.7	887.9	36.2	22.6	5.0	11.7	3.1
	5	5271.8	108.7	60.8	988.7	42.5	23.2	2.2	10.9	3.1
	mean	5230.8	108.0	62.2	836.8	33.6	23.8	3.3	8.1	3.0
26	1	4918.2	97.5	61.2	968.1	36.2	18.6	4.7	8.6	2.9
	2	5343.1	112.0	66.8	917.8	39.4	23.7	3.6	11.6	2.9
	3	4638.9	103.9	44.3	880.8	16.3	24.2	3.4	9.6	2.8
	4	5158.5	104.5	56.4	657.4	41.3	23.5	4.5	5.8	2.8
	5	4930.8	109.5	48.7	853.1	32.1	20.2	1.9	3.4	3.0
	mean	4997.9	105.5	55.5	855.4	33.1	22.0	3.6	7.8	2.9
28	1	5301.4	111.3	79.6	1283.2	38.2	30.1	10.4	29.9	3.7
	2	5300.0	107.6	58.0	627.3	37.3	21.4	3.3	6.8	2.8
	3	5355.3	107.6	67.3	840.5	23.6	21.1	7.3	14.3	3.2
	4	5299.6	100.6	70.7	890.5	33.6	23.0	4.4	8.7	2.9
	5	4785.1	108.5	63.8	842.0	41.0	24.7	5.3	12.2	3.0
	mean	5208.3	107.1	67.9	857.6	34.7	22.5	6.2	10.5	3.1
30	1	5010.3	106.3	62.0	523.0	37.8	23.1	4.1	7.8	3.0
	2	4080.5	90.9	49.0	500.9	36.0	24.5	1.9	6.7	2.7
	3	4994.7	105.8	67.1	821.5	28.9	23.3	5.6	7.7	3.4
	4	5285.8	103.5	65.1	490.6	33.4	25.8	5.7	6.7	3.1
	5	4943.5	103.9	74.7	656.1	41.5	23.2	4.6	7.3	3.1
	mean	4863.0	102.1	63.6	598.4	35.5	24.0	4.4	7.2	3.1

Table S8

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-37 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3554.2	55.4	30.0	236.8	n/a	74.5	14.7	46.2	2.9
	2	4216.9	82.6	35.1	409.1	33.3	93.8	16.9	58.2	3.1
	3	4137.2	62.9	33.4	282.0	7.5	96.9	17.3	48.4	3.0
	4	4039.7	66.9	43.9	460.9	18.1	88.5	17.5	51.2	3.2
	5	3325.2	64.3	30.2	263.8	n/a	78.7	15.9	44.9	2.7
	mean	3854.6	66.4	34.5	330.5	19.7	86.5	16.5	49.8	3.0
4	1	4201.2	92.0	48.9	363.1	18.5	95.0	18.1	55.6	3.3
	2	4414.3	94.5	47.9	543.5	33.6	105.3	17.9	57.2	3.5
	3	4003.4	83.4	33.7	291.9	2.7	96.3	17.2	53.9	3.0
	4	4082.1	63.2	46.2	368.7	17.9	95.4	18.0	54.8	3.0
	5	4205.0	88.4	43.4	439.9	23.5	95.4	19.0	64.0	3.3
	mean	4181.2	84.3	44.0	401.4	19.2	97.5	18.0	57.1	3.2
6	1	4743.4	94.8	48.8	691.8	24.0	82.4	17.5	51.0	3.8
	2	3251.7	54.8	26.7	159.5	n/a	65.7	14.6	47.9	2.7
	3	5291.0	105.9	70.4	630.9	36.0	100.0	18.4	55.0	3.7
	4	4799.6	92.5	48.9	420.6	33.1	97.9	17.1	53.0	3.3
	5	3223.8	51.2	32.8	167.2	n/a	51.7	15.5	45.2	2.5
	mean	4261.9	79.9	45.5	414.0	31.0	79.5	16.6	50.4	3.2
8	1	4477.3	98.9	58.9	304.3	23.2	110.1	19.6	66.8	3.3
	2	4282.1	89.9	46.2	306.6	11.7	88.3	18.4	57.4	3.2
	3	4926.0	99.0	47.3	256.8	25.8	103.8	17.7	55.0	3.2
	4	4390.8	93.6	53.7	387.0	12.6	100.7	18.3	58.6	3.2
	5	4942.3	96.8	48.6	369.9	35.7	110.0	18.3	58.1	3.2
	mean	4603.7	95.7	50.9	324.9	21.8	102.6	18.5	59.2	3.2
10	1	4741.1	90.5	42.6	325.0	38.0	98.1	18.6	54.2	2.9
	2	5039.1	95.3	68.9	459.3	30.1	129.6	21.2	82.2	3.2
	3	5105.0	98.0	48.7	434.1	31.2	118.1	21.5	72.9	3.2
	4	5112.5	100.6	61.7	484.8	38.4	111.6	20.9	66.6	3.2
	5	4386.6	99.1	40.1	309.2	33.7	101.3	19.2	63.1	3.1
	mean	4876.8	96.7	52.4	402.5	27.9	111.8	20.3	67.8	3.1
12	1	5033.2	103.6	48.2	342.4	33.5	99.5	18.2	61.8	3.0
	2	5119.7	103.0	49.1	253.7	10.1	51.4	14.0	33.5	2.6
	3	4700.8	105.5	48.4	356.0	15.9	95.3	18.1	55.4	3.0
	4	5303.9	108.0	65.5	311.4	25.1	46.0	15.3	41.2	3.0
	5	4060.2	78.6	40.1	215.9	4.7	76.8	16.0	40.6	2.8
	mean	4843.6	99.7	50.2	295.9	17.9	73.8	16.3	46.5	2.9
14	1	5303.4	107.1	64.3	597.7	33.2	45.3	16.7	37.5	3.7
	2	5356.9	111.0	46.6	373.0	18.3	46.0	13.7	31.6	3.2
	3	5384.2	109.4	47.6	273.5	33.8	32.4	8.1	23.3	2.6
	4	5090.0	101.9	68.4	605.0	n/a	33.0	12.3	27.7	3.7
	5	4612.5	95.9	41.7	247.7	n/a	28.6	10.4	22.4	2.6
	mean	5149.4	105.1	53.7	419.4	28.4	37.0	12.2	28.5	3.2

Table S8 *cont.*

16	1	4560.2	87.0	38.8	236.3	n/a	19.2	6.0	9.6	2.2
	2	4562.5	93.7	46.2	167.3	27.1	46.1	10.3	30.6	2.3
	3	5489.8	117.7	80.5	464.5	36.2	32.4	15.7	33.1	3.9
	4	3912.8	75.2	28.2	130.4	n/a	32.0	8.7	20.8	2.2
	5	5194.8	107.2	64.6	364.6	n/a	20.1	13.8	21.9	3.8
	mean	4744.0	96.2	51.7	272.6	31.6	30.0	10.9	23.2	2.9
18	1	3995.1	78.0	41.1	138.4	n/a	20.0	4.0	8.0	2.2
	2	4377.5	100.9	35.2	227.6	n/a	16.2	3.9	2.9	2.3
	3	5166.5	109.9	45.5	164.7	15.1	29.8	8.0	22.9	2.5
	4	3258.0	57.1	23.6	33.4	n/a	26.4	7.1	18.2	1.7
	5	4363.6	93.8	44.8	118.3	n/a	17.2	3.7	2.9	1.9
	mean	4232.1	87.9	38.0	136.5	15.1	21.9	5.3	11.0	2.1
20	1	4669.3	95.2	47.1	198.9	n/a	21.4	2.9	1.1	2.4
	2	4770.4	91.8	47.7	190.6	n/a	17.7	n/a	1.7	2.3
	3	4363.1	91.4	39.9	297.4	34.9	111.3	21.1	67.3	3.1
	4	5406.0	110.9	52.4	418.1	37.7	28.8	2.0	12.2	2.5
	5	4814.8	104.1	58.5	356.6	15.0	96.4	19.3	55.8	3.1
	mean	4804.7	98.7	49.1	292.3	29.2	55.1	11.3	27.6	2.7
22	1	5233.6	112.3	74.3	192.7	34.7	37.7	3.2	21.1	3.6
	2	5394.2	111.0	72.2	180.9	24.2	34.8	5.3	19.2	2.9
	3	4576.4	98.9	66.0	153.4	29.4	n/a	4.8	6.2	3.7
	4	5471.8	112.5	63.8	183.2	43.4	28.8	4.4	18.7	3.0
	5	5376.6	110.4	81.6	399.0	34.0	35.1	9.3	15.2	3.9
	mean	5210.5	109.0	71.6	221.8	33.1	34.1	5.4	16.1	3.4
24	1	5725.9	124.7	93.0	320.1	19.1	32.2	8.0	11.9	6.5
	2	5389.0	112.6	87.8	221.4	33.2	44.0	10.0	24.9	4.0
	3	5482.0	111.4	77.0	263.8	31.6	43.1	11.6	24.0	4.9
	4	5934.3	120.3	93.6	357.1	43.2	38.7	14.0	15.3	6.7
	5	5396.0	115.1	79.7	309.1	21.5	39.8	10.9	24.3	4.7
	mean	5585.4	116.8	86.2	294.3	29.7	39.5	10.9	20.1	5.4
26	1	5508.7	114.8	87.2	247.8	37.0	29.4	10.4	11.4	4.8
	2	5408.7	115.3	78.6	187.5	19.6	31.5	5.3	13.2	3.9
	3	5362.9	115.6	81.9	252.2	42.3	29.2	6.6	11.6	4.7
	4	5333.6	115.1	63.0	127.7	41.1	29.6	2.5	15.1	3.3
	5	4953.4	100.1	59.1	85.7	n/a	15.9	n/a	n/a	2.6
	mean	5313.5	112.2	74.0	180.2	35.0	27.1	6.2	12.8	3.9
28	1	5354.3	119.2	73.9	206.0	24.5	32.1	5.8	8.4	4.2
	2	5147.6	104.6	73.2	220.7	n/a	14.6	4.7	2.9	4.0
	3	5118.2	107.2	70.7	197.8	n/a	14.6	4.3	2.7	3.9
	4	4897.9	98.7	45.3	109.4	n/a	11.5	n/a	n/a	2.6
	5	4673.8	105.4	80.8	196.9	n/a	14.8	4.0	0.3	4.2
	mean	5038.4	107.0	68.8	186.1	24.5	17.5	4.7	3.6	3.8
30	1	5248.3	108.6	74.4	144.3	n/a	16.3	2.6	n/a	3.6
	2	4780.6	107.3	45.1	113.4	n/a	14.8	0.2	0.9	2.4
	3	5285.1	107.6	69.9	193.8	n/a	16.1	2.1	4.6	3.6
	4	4669.7	95.4	49.5	119.0	n/a	12.7	n/a	n/a	3.2
	5	4908.9	99.2	46.7	84.3	n/a	10.3	n/a	n/a	2.2
	mean	4978.5	103.6	57.1	131.0	n/a	14.0	1.6	2.8	3.0

Table S9

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-44 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2686.7	35.8	10.8	442.8	n/a	87.8	26.0	0.3	91.7
	2	2643.6	31.8	11.9	181.7	n/a	85.3	25.1	0.4	89.2
	3	3269.5	55.1	27.7	489.0	n/a	87.3	33.7	0.4	100.9
	4	2542.3	43.5	9.1	232.9	n/a	52.8	21.8	0.4	79.1
	5	2739.6	32.6	21.3	436.3	n/a	88.2	25.7	0.3	89.9
	mean	2776.3	39.8	16.2	356.5	n/a	80.3	26.5	0.3	90.2
4	1	3100.6	44.2	15.6	404.3	n/a	89.6	25.6	0.3	93.4
	2	2821.5	38.2	22.4	573.7	n/a	92.6	26.5	0.3	92.9
	3	2825.6	38.6	21.5	479.0	n/a	94.2	28.0	0.3	93.7
	4	2762.9	40.1	12.7	409.0	n/a	82.4	28.9	0.3	90.0
	5	2759.8	33.3	21.3	321.8	n/a	95.5	26.0	0.3	93.5
	mean	2854.1	38.9	18.7	437.6	n/a	90.8	27.0	0.3	92.7
6	1	3270.4	58.1	32.7	168.6	n/a	65.0	21.5	0.3	66.1
	2	2887.5	47.1	17.5	287.3	n/a	134.0	34.1	0.3	113.0
	3	3936.9	83.4	39.9	243.2	9.8	46.1	20.2	0.3	50.5
	4	3256.8	46.7	24.7	328.5	n/a	106.3	28.9	0.4	95.1
	5	3223.8	52.0	32.6	400.7	0.2	95.8	25.5	0.4	91.7
	mean	3315.1	57.4	29.5	285.7	5.0	89.4	26.0	0.3	83.3
8	1	3732.4	75.2	28.9	416.9	5.0	84.2	23.8	0.3	76.9
	2	3298.5	52.0	24.9	338.9	0.2	117.8	27.3	0.3	92.8
	3	4084.1	83.6	38.6	389.7	7.4	48.8	20.3	0.4	57.4
	4	3500.5	60.9	34.9	303.5	n/a	135.9	34.8	0.3	103.6
	5	3624.1	60.9	33.0	294.3	n/a	68.1	21.0	0.4	68.2
	mean	3647.9	66.5	32.1	348.7	4.2	91.0	25.4	0.3	79.8
10	1	4317.1	83.6	31.2	224.2	7.6	23.4	14.8	0.4	32.6
	2	3907.3	81.1	38.4	200.6	n/a	38.1	18.2	0.3	40.6
	3	4035.9	64.5	34.2	198.8	n/a	32.4	13.8	0.4	35.1
	4	4039.7	85.5	36.0	198.2	11.9	29.0	11.8	0.4	29.8
	5	3729.8	67.5	31.3	236.7	n/a	31.5	15.3	0.4	37.1
	mean	4006.0	76.4	34.2	211.7	9.7	30.9	14.8	0.4	35.0
12	1	5280.7	104.3	48.1	498.2	36.0	22.5	9.9	0.3	22.6
	2	5313.9	114.6	67.1	421.1	34.9	23.3	8.4	0.3	22.2
	3	5334.9	106.3	48.9	511.4	17.9	21.4	7.9	0.3	26.7
	4	5338.8	111.9	59.4	521.7	29.9	19.2	8.4	0.3	20.2
	5	3966.2	64.5	33.6	212.9	11.1	20.4	8.1	0.3	19.9
	mean	5046.9	109.3	51.4	433.1	26.0	21.4	8.5	0.3	22.3
14	1	4849.4	105.4	41.0	302.8	16.7	16.6	7.7	0.3	14.9
	2	4970.9	111.1	51.4	448.8	33.1	17.1	7.7	0.3	14.2
	3	4335.6	89.3	44.0	169.2	3.4	18.8	8.4	0.3	22.7
	4	5306.8	109.2	76.2	727.2	17.7	17.1	9.9	0.3	23.3
	5	4334.2	99.4	40.5	143.2	10.0	19.1	6.1	0.3	15.0
	mean	4759.4	102.9	50.6	358.2	16.2	17.7	8.0	0.3	18.0

Table S9 *cont.*

16	1	5102.0	95.4	45.7	287.2	6.3	22.3	6.2	0.3	16.6
	2	5301.6	105.0	75.3	889.5	19.9	19.2	10.8	0.3	26.8
	3	4287.7	98.3	45.6	238.0	0.5	17.4	7.2	0.3	21.6
	4	3760.4	75.3	36.0	256.9	n/a	7.0	1.2	0.2	n/a
	5	4041.5	89.4	51.1	384.6	n/a	9.9	n/a	0.2	9.0
	mean	4498.6	92.7	50.7	411.2	8.9	15.1	6.4	0.3	18.5
18	1	5291.2	102.5	59.9	234.0	33.9	15.3	0.8	0.3	9.9
	2	5367.7	101.5	71.2	301.5	18.5	22.8	7.2	0.3	14.2
	3	5084.9	105.9	58.1	240.3	18.1	16.9	1.6	0.3	13.4
	4	4257.4	97.3	59.4	173.3	n/a	5.8	n/a	0.2	0.3
	5	4223.4	95.1	36.5	95.0	n/a	3.3	n/a	0.2	n/a
	mean	4844.9	100.5	57.0	208.8	23.5	12.8	3.2	0.3	9.5
20	1	4353.8	96.8	34.2	289.1	n/a	7.5	n/a	0.2	n/a
	2	4914.9	96.9	46.9	251.1	19.1	17.0	1.1	0.3	11.6
	3	5279.6	103.3	51.3	300.0	23.7	17.7	n/a	0.3	11.4
	4	4946.9	109.4	55.9	216.2	24.5	15.8	4.0	0.3	8.8
	5	4442.8	101.3	43.3	395.2	n/a	5.4	0.1	0.2	n/a
	mean	4787.6	101.6	46.3	290.3	22.5	12.7	1.7	0.3	10.6
22	1	4535.9	105.1	37.2	79.2	22.7	17.6	n/a	0.3	5.2
	2	4960.0	105.0	45.1	116.9	30.9	19.8	n/a	0.3	4.2
	3	4773.3	107.3	65.0	77.9	31.8	21.4	n/a	0.3	3.6
	4	4499.7	89.3	44.1	134.5	n/a	7.3	n/a	0.2	n/a
	5	4548.9	109.2	45.1	77.4	41.7	17.5	n/a	0.3	4.9
	mean	4663.6	103.2	47.3	97.2	31.8	16.7	n/a	0.3	4.5
24	1	5215.1	106.0	65.7	958.1	36.3	18.8	4.4	0.3	11.5
	2	4213.2	95.2	38.1	340.8	n/a	9.0	n/a	0.2	n/a
	3	4799.9	107.4	48.5	212.1	33.8	19.0	2.5	0.3	11.4
	4	4495.0	105.9	60.3	169.7	34.2	19.3	n/a	0.3	3.6
	5	4448.7	102.5	55.9	552.8	12.2	19.2	2.4	0.3	12.9
	mean	4634.4	103.4	53.7	446.7	29.1	17.1	3.1	0.3	9.9
26	1	5272.9	109.2	57.9	81.0	34.6	22.6	0.1	0.3	2.1
	2	5064.7	102.6	50.0	207.4	34.0	22.7	1.2	0.3	7.5
	3	4992.7	110.6	47.3	115.3	35.1	21.9	n/a	0.3	5.3
	4	4861.9	107.7	53.8	91.5	40.2	19.9	n/a	0.3	6.2
	5	5378.5	105.5	75.4	146.4	33.6	26.4	8.6	0.3	15.9
	mean	5114.1	107.1	56.9	128.3	35.5	22.7	3.3	0.3	7.4
28	1	5392.2	114.3	66.3	262.3	37.7	23.8	n/a	0.3	9.2
	2	5174.3	101.7	63.4	190.4	36.5	23.1	n/a	0.3	9.5
	3	5302.8	114.3	74.4	153.6	35.2	25.6	1.3	0.3	10.4
	4	5265.0	108.1	47.0	280.6	40.3	17.3	n/a	0.4	6.1
	5	4845.5	107.3	62.6	154.3	24.5	24.6	n/a	0.3	10.6
	mean	5195.9	109.1	62.8	208.3	37.4	22.9	1.3	0.3	9.2
30	1	5283.4	105.6	62.9	301.9	31.2	19.9	n/a	0.3	6.9
	2	4907.3	95.6	54.8	150.6	38.7	23.1	n/a	0.3	6.8
	3	5293.9	109.0	67.7	197.4	40.1	18.3	n/a	0.3	7.5
	4	5054.6	106.6	52.0	135.0	36.6	18.7	n/a	0.3	8.5
	5	4770.2	110.4	54.7	179.8	41.5	23.9	n/a	0.3	5.3
	mean	5061.9	105.5	58.4	192.9	37.6	20.8	n/a	0.3	7.4

Table S10

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-50 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	1668.7	18.1	3.9	749.4	n/a	103.2	14.9	46.5	2.6
	2	1711.6	10.4	10.4	713.5	n/a	90.7	13.9	51.5	2.6
	3	1647.8	11.4		703.5	n/a	103.9	14.1	50.2	2.6
	4	1735.9	6.4	3.6	744.8	n/a	101.8	14.3	45.0	2.8
	5	1649.0	9.2	8.6	689.6	n/a	102.8	12.2	44.3	2.5
	mean	1682.6	9.3	6.6	720.2	n/a	100.5	13.9	47.5	2.6
4	1	3286.8	58.7	54.9	1098.9	37.9	185.3	26.6	97.2	4.2
	2	3298.6	66.1	38.9	1134.0	40.6	193.7	28.1	106.5	4.3
	3	3163.5	50.4	42.6	1129.6	38.4	174.4	24.7	90.7	4.2
	4	3784.5	85.8	69.7	1171.5	43.6	203.2	31.4	109.5	4.6
	5	3859.8	87.8	66.2	1185.3	46.5	218.9	34.9	113.9	4.7
	mean	3478.6	69.8	54.4	1143.9	41.4	195.1	29.2	103.6	4.4
6	1	3821.6	73.5	46.2	1158.8	45.7	154.0	24.5	93.2	4.2
	2	4096.0	79.0	87.4	1221.2	47.2	170.0	24.9	90.5	4.6
	3	3980.1	79.5	50.2	1182.7	45.8	150.3	26.0	91.9	4.2
	4	3898.4	96.7	79.4	1180.1	43.4	152.5	25.1	79.3	4.4
	5	3988.4	86.8	65.9	1184.4	43.7	173.0	28.0	100.9	4.3
	mean	3956.9	83.1	65.8	1182.4	45.1	159.9	25.7	91.2	4.3
8	1	4312.7	103.0	77.4	1259.9	47.5	135.5	25.7	86.2	4.3
	2	4690.8	102.9	70.7	1230.6	51.7	134.5	25.5	79.3	4.3
	3	4276.1	106.7	80.7	1249.7	50.4	171.6	33.4	102.3	4.5
	4	4235.3	96.3	79.5	1234.9	48.9	139.8	27.2	91.7	4.3
	5	4415.7	87.3	75.5	1217.6	45.2	135.4	23.4	77.1	4.3
	mean	4386.1	99.2	76.7	1238.6	48.8	143.4	27.0	87.3	4.3
10	1	4600.9	107.1	78.4	1290.0	47.6	130.6	18.7	52.7	4.7
	2	4198.3	97.9	78.7	1222.6	47.0	147.3	23.6	79.9	4.8
	3	4359.0	108.4	75.3	992.0	49.5	70.3	12.6	29.1	4.3
	4	4969.9	102.4	81.2	1252.2	51.9	125.9	19.2	54.4	4.7
	5	4605.2	103.8	74.5	1059.4	43.7	55.3	8.4	27.1	4.2
	mean	4546.7	103.9	77.6	1163.2	47.9	105.9	16.5	48.6	4.5
12	1	4447.1	106.9	73.4	1268.1	49.3	51.9	14.3	30.9	4.3
	2	5032.1	103.4	83.2	1163.3	51.2	95.3	11.1	24.2	4.7
	3	4721.8	91.1	72.7	1205.8	45.8	57.4	7.8	17.1	4.6
	4	4216.7	105.9	79.8	1201.8	49.6	77.9	13.4	31.6	4.6
	5	4124.9	100.1	73.0	1189.6	49.0	93.1	14.6	35.8	4.2
	mean	4508.5	101.5	76.4	1199.1	49.0	75.1	12.2	27.9	4.5
14	1	4670.3	94.8	79.6	1222.3	48.6	41.4	10.8	17.0	4.7
	2	3991.9	94.5	70.4	1155.9	n/a	34.5	8.8	14.7	4.1
	3	3954.3	90.8	80.4	1132.7	n/a	30.0	4.7	5.7	4.2
	4	4111.6	90.9	69.4	1137.1	12.0	26.7	5.3	1.5	4.2
	5	4144.0	98.1	74.1	1149.2	9.9	28.9	1.1	0.7	4.2
	mean	4174.4	93.8	74.8	1159.4	23.5	32.3	6.1	7.9	4.3

***Table S10** cont.*

16	1	3903.7	91.7	71.7	1072.5	n/a	47.1	11.4	24.3	4.2
	2	4027.4	90.8	71.9	1113.8	12.2	46.2	10.9	27.1	4.3
	3	3710.4	95.8	67.1	1135.0	1.1	38.0	4.4	5.8	3.9
	4	3654.4	99.7	71.2	1071.5	n/a	76.7	13.9	31.5	4.2
	5	3633.0	93.3	67.2	1101.5	n/a	49.2	12.1	31.7	4.0
	mean	3785.8	94.2	69.8	1098.9	6.6	51.4	10.5	24.1	4.1
18	1	4145.8	100.1	61.1	1181.4	7.6	23.9	2.7	1.0	4.2
	2	4084.0	98.9	75.2	1112.9	n/a	21.6	n/a	n/a	4.2
	3	3901.6	97.6	74.0	1153.0	10.4	25.7	n/a	0.1	4.2
	4	4019.5	85.6	64.1	1148.3	20.4	29.1	2.5	0.8	4.2
	5	4067.2	99.2	67.6	1104.8	2.7	23.2	0.8	0.1	4.2
	mean	4043.6	96.3	68.4	1140.1	10.3	24.7	2.0	0.5	4.2
20	1	3831.6	97.6	75.6	1246.4	7.5	24.3	n/a	n/a	4.5
	2	3667.6	93.1	74.3	1116.6	9.4	28.3	n/a	n/a	4.3
	3	3759.6	103.3	75.1	1085.2	n/a	27.4	n/a	n/a	4.2
	4	4075.1	98.7	83.2	998.0	7.5	21.4	n/a	n/a	4.5
	5	4009.4	107.6	85.9	1056.3	17.9	24.0	n/a	n/a	4.8
	mean	3868.7	100.1	78.8	1064.0	10.6	25.1	n/a	n/a	4.5
22	1	3965.7	97.8	76.6	1062.6	5.6	26.5	n/a	n/a	4.2
	2	3685.8	93.4	75.2	928.3	5.7	21.9	n/a	n/a	4.2
	3	4985.8	95.5	78.4	831.2	n/a	24.0	n/a	n/a	3.9
	4	3635.2	92.0	72.0	1113.7	1.9	23.0	n/a	n/a	4.3
	5	3291.5	59.8	35.9	829.3	n/a	17.8	n/a	n/a	3.8
	mean	3912.8	94.7	67.6	953.0	4.4	23.9	n/a	n/a	4.1
24	1	1368.7	17.9	25.6	573.9	n/a	1.1	n/a	n/a	2.7
	2	1524.3	14.7	21.4	637.7	n/a	3.7	n/a	n/a	3.0
	3	1058.5	9.7	18.5	876.3	n/a	2.8	n/a	n/a	2.7
	4	1436.8	23.6	32.8	481.7	n/a	8.8	n/a	n/a	3.3
	5	1755.6	34.7	31.7	612.4	n/a	11.3	n/a	n/a	3.3
	mean	1428.8	20.1	26.0	636.4	n/a	5.5	n/a	n/a	3.0
26	1	3634.9	93.2	88.1	1168.5	16.4	23.0	n/a	n/a	4.9
	2	3584.7	95.2	81.6	1181.2	24.0	25.5	n/a	n/a	4.8
	3	3829.9	94.7	77.4	1280.6	17.7	24.3	n/a	n/a	4.7
	4	3894.0	97.0	89.0	1234.8	24.7	30.6	n/a	n/a	4.9
	5	3860.5	90.8	87.0	1198.9	9.4	28.2	n/a	n/a	4.7
	mean	3760.8	94.2	84.6	1212.8	18.4	26.3	n/a	n/a	4.8
28	1	3880.2	106.6	89.0	1424.8	19.2	27.0	n/a	n/a	4.8
	2	3879.3	86.6	86.6	1400.4	11.1	31.7	n/a	n/a	4.8
	3	3864.4	90.3	80.8	1326.5	9.8	28.2	n/a	n/a	4.8
	4	3890.3	84.5	86.5	1343.7	9.9	22.5	n/a	n/a	4.8
	5	3857.4	103.6	87.3	1560.9	11.3	24.2	n/a	n/a	4.8
	mean	3874.3	94.3	86.0	1411.3	12.2	26.7	n/a	n/a	4.8
30	1	3983.5	100.5	89.3	1544.4	15.3	25.2	n/a	n/a	4.8
	2	3399.8	91.8	82.7	1453.5	7.9	26.0	n/a	n/a	4.7
	3	3777.0	104.4	84.6	1193.0	16.1	23.9	n/a	n/a	4.9
	4	3603.8	98.1	73.6	1145.1	n/a	25.9	n/a	n/a	4.7
	5	4127.4	96.1	90.4	1462.0	55.7	54.3	n/a	n/a	5.4
	mean	3778.3	98.2	84.1	1359.6	23.7	25.3	n/a	n/a	4.9

Table S11

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-52 (0–30 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	4086.5	63.6	43.4	373.3	17.6	98.9	18.6	56.8	3.2
	2	4179.0	83.1	45.7	332.3	31.9	106.3	20.2	65.5	3.4
	3	4106.5	55.7	47.4	342.4	38.3	103.0	20.4	56.4	3.3
	4	4266.0	82.5	33.6	337.6	38.7	112.8	18.4	62.7	3.4
	5	5004.7	91.0	57.3	347.8	27.9	106.0	18.8	56.0	3.5
	mean	4328.5	75.2	45.5	346.7	30.9	105.4	19.3	59.5	3.3
4	1	4263.0	83.7	49.6	411.0	26.4	110.2	18.4	60.1	3.6
	2	4307.8	100.2	59.7	445.3	22.5	118.8	21.1	67.7	3.6
	3	4234.4	84.9	41.9	400.7	19.9	109.4	20.2	59.2	3.5
	4	4297.1	98.0	63.9	372.5	41.9	119.0	20.9	63.0	3.6
	5	4221.3	83.3	39.8	382.6	9.5	109.9	18.7	55.7	3.4
	mean	4264.7	90.0	51.0	402.4	22.9	113.5	19.9	61.2	3.5
6	1	4656.4	96.6	47.8	417.0	12.7	107.8	20.1	62.5	3.6
	2	3916.6	82.8	33.8	380.1	15.6	117.3	20.5	62.1	3.4
	3	4890.8	94.4	51.4	502.7	34.0	127.4	20.9	61.3	3.6
	4	4436.6	97.1	47.8	430.5	27.8	116.3	19.2	62.7	3.5
	5	4644.0	108.7	61.1	365.8	35.4	118.9	19.3	64.9	3.6
	mean	4508.9	95.9	48.4	419.2	25.1	117.5	20.0	62.7	3.5
8	1	5197.6	94.3	71.9	155.9	34.6	39.8	10.7	19.4	3.6
	2	4355.7	99.5	59.0	422.2	41.5	126.3	20.7	67.1	3.6
	3	5472.4	115.2	78.6	174.8	40.8	43.7	10.5	26.1	3.9
	4	5341.3	101.1	78.7	154.1	35.5	38.5	9.1	15.0	3.6
	5	5404.9	118.3	80.4	211.7	43.9	57.6	12.4	31.1	3.8
	mean	5154.4	105.7	73.7	223.7	39.2	61.2	12.7	31.7	3.7
10	1	5192.8	103.2	45.0	388.3	40.4	119.8	17.9	50.3	3.5
	2	4378.3	93.8	54.3	414.7	41.5	113.7	21.4	65.2	3.4
	3	5349.4	101.7	72.5	228.2	41.6	43.7	9.8	24.9	3.4
	4	4616.5	105.4	59.9	400.8	44.8	108.3	19.9	65.2	3.5
	5	5129.9	97.9	72.3	290.8	40.4	75.7	15.7	36.0	3.3
	mean	4933.4	100.4	60.8	344.5	41.0	92.3	16.9	48.3	3.4
12	1	3904.3	79.1	45.2	380.1	22.2	101.3	18.1	51.0	3.1
	2	4456.7	82.3	45.7	392.2	10.4	104.0	19.0	51.3	3.4
	3	3275.9	56.2	34.9	300.6	3.7	84.8	16.5	38.4	2.9
	4	3545.7	63.2	42.2	356.6	5.0	107.6	17.1	49.6	3.1
	5	4257.5	91.1	47.5	415.3	22.7	105.7	19.5	58.6	3.4
	mean	3888.0	74.4	43.1	369.0	12.8	100.7	18.0	49.8	3.2
14	1	5132.6	109.5	80.0	397.5	37.5	61.1	14.0	32.8	3.4
	2	5071.4	101.8	61.2	425.7	34.3	69.9	15.3	36.3	3.5
	3	5323.4	119.2	62.1	345.7	38.7	60.8	11.5	29.6	3.4
	4	4819.9	101.9	56.9	423.6	36.2	82.6	15.3	37.1	3.4
	5	4232.8	94.0	56.8	407.3	39.9	99.0	18.2	51.6	3.3
	mean	4916.0	105.3	63.4	399.9	37.3	74.7	14.9	37.5	3.4

***Table S11** cont.*

16	1	4584.4	100.5	43.2	309.3	36.1	47.3	10.6	27.4	3.1
	2	4746.9	103.2	58.7	372.3	32.8	84.5	16.4	37.9	3.5
	3	4720.2	98.4	48.2	139.5	34.3	39.8	1.5	14.4	2.5
	4	4999.2	108.2	48.0	451.0	35.6	71.5	15.2	34.7	3.5
	5	4995.4	92.6	63.9	264.9	31.7	55.5	14.4	31.3	3.2
	mean	4809.2	100.6	52.4	307.4	34.1	59.7	11.6	29.1	3.2
18	1	5327.2	112.9	76.7	646.6	38.9	38.5	8.3	10.7	3.6
	2	5289.7	114.5	72.7	598.5	41.2	63.8	13.3	28.7	3.6
	3	5364.0	113.8	73.2	404.2	40.2	36.1	5.4	8.8	3.7
	4	5280.9	110.2	83.6	495.7	40.1	48.9	10.0	21.0	3.6
	5	5353.8	111.0	75.7	499.5	35.9	40.0	4.3	8.7	3.7
	mean	5323.1	112.5	76.4	528.9	39.3	45.5	8.3	15.6	3.6
20	1	5291.5	111.1	64.6	428.6	39.9	46.7	9.8	25.7	3.6
	2	5218.2	107.8	70.9	367.3	41.5	59.9	12.6	29.4	3.6
	3	5425.5	116.2	88.2	328.7	41.9	34.8	3.4	9.2	3.8
	4	4618.9	105.0	63.9	241.8	n/a	24.3	1.9	3.0	3.2
	5	5337.6	111.5	70.3	464.0	40.6	49.0	11.0	21.5	3.6
	mean	5178.4	110.3	71.6	366.1	41.0	42.9	7.7	17.8	3.5
22	1	5376.6	114.2	78.5	285.9	40.6	33.9	2.0	5.7	3.6
	2	4151.2	97.6	63.0	376.7	n/a	42.2	11.4	21.1	3.4
	3	5030.9	108.3	57.1	256.5	n/a	20.6	n/a	n/a	3.3
	4	5055.7	104.0	82.6	354.6	36.9	32.1	5.4	8.7	3.6
	5	4890.5	105.9	79.9	437.0	n/a	18.3	n/a	n/a	3.4
	mean	4901.0	106.0	72.2	342.1	38.8	29.4	6.3	11.8	3.4
24	1	5476.7	114.0	85.8	303.9	38.6	35.8	3.3	8.8	3.8
	2	4879.9	111.2	60.8	216.8	n/a	24.3	3.5	n/a	3.6
	3	4949.2	94.9	62.2	255.3	n/a	21.3	0.9	n/a	3.5
	4	4827.3	101.9	79.8	185.5	n/a	16.5	0.3	n/a	3.6
	5	5108.6	104.7	78.2	225.1	n/a	23.5	n/a	n/a	3.5
	mean	5048.4	105.4	73.4	237.3	38.6	24.3	2.0	8.8	3.6
26	1	5044.3	106.9	57.5	406.2	41.8	46.6	10.2	26.7	3.8
	2	5267.8	107.5	80.7	604.3	38.5	46.6	13.1	28.7	4.3
	3	5264.8	112.1	87.1	165.0	46.9	34.5	5.0	11.9	4.0
	4	4070.0	103.5	57.3	260.4	n/a	23.7	1.3	2.3	3.7
	5	5146.1	105.7	71.5	211.2	n/a	19.6	2.3	0.5	3.9
	mean	4958.6	107.2	70.8	329.4	42.4	34.2	6.4	14.0	3.9
28	1	4193.8	98.9	60.2	189.2	n/a	31.8	6.2	1.6	3.7
	2	5205.0	110.5	87.8	475.6	43.6	48.2	10.0	18.6	4.2
	3	4835.7	107.5	48.4	87.3	n/a	18.8	n/a	n/a	3.2
	4	4221.2	95.4	42.8	268.7	n/a	37.2	8.7	16.2	3.5
	5	4644.7	99.5	67.5	139.2	n/a	24.6	n/a	n/a	3.7
	mean	4620.1	102.3	61.3	232.0	43.6	32.1	8.3	12.1	3.7
30	1	4126.2	103.1	58.3	322.9	n/a	18.4	0.9	n/a	3.4
	2	3580.1	84.8	34.9	424.5	n/a	16.5	0.8	2.8	2.8
	3	4096.5	87.2	47.6	343.1	n/a	24.5	4.9	n/a	3.7
	4	4548.9	106.0	55.0	115.2	n/a	19.9	0.1	n/a	3.3
	5	4726.9	92.8	68.2	506.6	35.9	78.7	14.4	30.7	4.0
	mean	4215.7	94.8	52.8	342.4	35.9	19.8	4.2	16.8	3.4

Table S12

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number G-58 (0–28 cm depth) in the area of the Grabicz Forest (LG), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	4532.7	93.7	76.0	1202.2	35.3	158.2	40.1	114.2	5.1
	2	4438.0	96.8	79.3	1225.3	39.3	155.6	33.3	106.0	4.9
	3	5391.7	112.5	88.9	1081.4	46.2	185.2	38.9	115.4	5.4
	4	5002.1	100.7	70.9	1210.3	45.4	158.2	33.8	108.0	5.0
	5	5282.5	111.9	84.7	1149.0	41.6	173.4	42.4	114.3	5.3
	mean	4929.4	103.1	79.9	1173.7	41.6	166.1	37.7	111.6	5.1
4	1	5223.3	95.8	79.7	948.6	46.4	145.4	27.8	87.8	5.1
	2	5034.6	99.9	89.3	915.0	43.5	143.3	26.3	88.0	5.0
	3	5208.6	105.6	74.5	872.6	45.9	144.1	26.4	87.8	5.2
	4	5188.2	115.0	80.8	1000.0	50.5	153.1	27.6	92.2	5.0
	5	5266.0	113.7	87.7	1012.2	39.6	149.2	27.0	89.8	5.0
	mean	5184.2	106.0	82.4	949.7	45.2	147.0	27.0	89.1	5.0
6	1	4428.9	90.4	89.0	880.2	36.6	132.0	25.0	79.2	4.9
	2	5298.7	108.4	88.6	1002.5	42.6	144.2	28.2	92.9	5.2
	3	5306.0	110.2	80.2	1101.3	41.3	147.1	29.6	94.7	5.2
	4	5294.9	110.8	81.1	945.8	43.4	131.1	24.5	67.8	5.0
	5	5310.9	107.9	89.0	1062.4	46.7	151.8	29.4	102.3	5.2
	mean	5127.9	105.5	85.6	998.5	43.5	141.2	27.4	87.4	5.1
8	1	5316.9	119.9	92.4	1769.9	51.3	109.1	14.5	31.1	5.7
	2	5431.9	110.9	93.7	1137.5	54.4	65.8	9.6	17.0	6.4
	3	5335.3	106.7	87.4	1423.1	62.7	76.0	8.0	18.8	5.2
	4	5356.2	122.8	90.6	1407.6	53.7	76.0	11.4	26.4	6.1
	5	5147.4	109.2	91.7	480.3	56.5	62.6	5.7	13.7	5.6
	mean	5317.5	113.9	91.2	1243.7	55.7	77.9	9.8	21.4	5.8
10	1	5388.4	118.5	92.3	969.3	56.3	48.4	8.5	15.9	5.5
	2	5399.0	127.3	90.9	1099.1	60.8	51.2	10.4	16.3	6.5
	3	5295.4	120.0	93.7	902.9	52.9	59.4	7.2	14.0	6.2
	4	4772.4	105.5	79.1	1057.8	43.6	97.0	17.1	48.9	4.9
	5	5347.6	106.7	91.4	1014.4	49.7	58.5	8.6	22.2	5.5
	mean	5240.6	115.6	89.5	1008.7	54.6	62.9	10.4	23.5	5.7
12	1	5302.8	108.7	90.7	979.8	45.9	126.6	23.5	68.7	5.8
	2	5322.3	106.3	90.0	1042.9	46.3	113.6	20.4	51.3	5.4
	3	5296.0	119.6	90.2	1120.4	51.7	50.7	10.3	18.1	6.0
	4	5210.0	120.2	90.3	764.3	50.1	122.3	21.0	66.1	5.7
	5	5319.5	111.0	91.3	702.0	52.4	88.8	14.0	29.5	6.5
	mean	5290.1	113.2	90.5	921.9	49.3	100.4	17.8	46.7	5.7
14	1	5297.4	114.6	89.0	955.5	56.6	43.7	8.6	10.6	5.3
	2	5336.1	114.2	94.2	823.2	56.6	46.3	4.7	8.6	6.0
	3	5356.4	123.5	97.0	1745.3	59.4	51.6	10.2	15.1	6.3
	4	5248.7	117.5	91.5	802.8	50.4	47.1	6.6	7.9	5.8
	5	5386.2	121.1	101.4	1448.2	58.2	49.0	8.4	9.7	5.9
	mean	5325.0	118.2	94.6	1155.0	56.2	47.6	7.7	10.4	5.8

***Table S12** cont.*

16	1	5170.6	112.0	98.1	1061.6	47.5	49.2	8.8	14.8	6.1
	2	5297.2	111.9	92.0	1163.5	50.0	43.7	10.5	21.1	5.5
	3	5283.6	121.7	92.2	1036.8	47.7	46.1	8.0	7.5	6.4
	4	5345.8	121.7	87.9	1021.4	48.6	42.5	6.8	12.3	5.5
	5	5156.9	115.3	95.9	1086.6	55.9	44.1	5.9	12.7	6.1
	mean	5250.8	116.5	93.2	1074.0	50.0	45.1	8.0	13.7	5.9
18	1	5093.7	114.9	101.8	798.9	52.3	46.2	8.4	6.8	6.9
	2	5314.0	119.9	104.3	1023.3	55.5	51.0	7.9	10.8	7.0
	3	5277.9	115.2	111.2	770.6	49.6	45.0	6.5	8.5	6.5
	4	5274.8	118.0	105.6	1133.7	58.1	49.5	7.1	11.1	7.2
	5	4845.4	119.8	111.7	1245.3	52.2	47.2	10.0	9.5	7.0
	mean	5161.1	117.6	106.9	994.3	53.6	47.8	8.0	9.4	6.9
20	1	4908.3	108.9	93.0	532.9	47.6	48.8	7.2	10.4	6.2
	2	4143.3	96.8	91.5	435.8	46.4	47.5	7.8	11.5	5.1
	3	5194.3	111.4	91.6	681.3	42.4	49.8	10.9	24.8	6.1
	4	4327.1	109.2	84.3	424.4	50.6	44.3	5.5	8.8	5.4
	5	4648.6	105.7	89.4	469.0	46.3	48.2	6.3	11.2	5.5
	mean	4644.3	106.4	89.9	508.7	46.7	47.7	7.5	13.3	5.7
22	1	5306.1	113.9	89.4	722.6	47.1	42.8	7.5	10.5	5.5
	2	4889.9	112.5	91.9	759.8	46.1	42.5	6.0	11.8	5.5
	3	4591.2	115.4	93.1	806.3	50.4	47.1	5.5	7.1	5.8
	4	5083.8	109.0	90.2	924.7	47.5	47.6	3.8	9.5	5.3
	5	5121.7	112.8	92.2	823.7	58.0	45.4	6.0	5.6	6.0
	mean	4998.5	112.7	91.4	807.4	49.8	45.1	5.8	8.9	5.6
24	1	5318.3	115.4	89.5	812.9	47.1	38.5	5.6	14.0	5.4
	2	5031.7	109.0	89.9	658.4	50.1	38.3	4.6	6.0	5.5
	3	5297.7	115.2	90.0	877.2	48.9	41.6	6.0	10.4	5.0
	4	5193.5	113.2	89.0	755.5	51.8	41.5	3.7	9.3	5.2
	5	5342.9	117.2	87.9	748.2	51.5	37.1	7.2	13.2	5.1
	mean	5236.8	114.0	89.3	770.4	49.9	39.4	5.4	10.6	5.3
26	1	3417.9	65.4	62.0	541.1	46.5	55.4	14.0	26.6	4.2
	2	3449.1	91.7	66.8	674.6	47.7	70.4	16.7	33.8	4.3
	3	4400.9	107.5	87.0	910.8	48.9	79.3	13.8	29.9	5.2
	4	4197.4	95.8	82.1	829.0	50.3	83.2	14.6	32.2	5.1
	5	3243.3	63.7	56.3	391.1	41.3	42.1	10.1	24.2	3.9
	mean	3741.7	84.8	70.9	669.3	46.9	66.1	13.8	29.3	4.6
28	1	3909.5	90.3	83.2	545.2	50.4	47.4	12.5	22.8	5.1
	2	3843.1	90.7	75.3	516.6	47.3	45.1	10.9	20.8	4.8
	3	4170.6	106.4	88.7	515.7	52.6	52.4	10.1	25.0	4.9
	4	4909.9	109.6	87.2	595.3	49.9	50.9	11.5	19.3	5.4
	5	4090.1	89.8	76.6	624.9	42.7	53.0	14.2	30.0	5.0
	mean	4184.6	97.4	82.2	559.5	48.6	49.8	11.9	23.6	5.0

Table S13
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-1 (0–30 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3040.8	48.7	48.2	376.0	13.7	138.8	20.1	56.0	3.8
	2	3103.3	45.9	48.5	389.4	35.7	146.8	19.1	65.9	3.8
	3	2861.0	49.2	43.1	358.1	31.4	139.7	19.3	60.1	3.7
	4	3131.0	57.2	53.7	342.9	22.0	146.7	19.5	63.8	3.8
	5	3017.9	58.2	51.5	409.2	24.9	133.8	19.7	56.7	3.8
	mean	3030.8	51.8	49.0	375.1	25.5	141.2	19.5	60.5	3.8
4	1	3221.9	58.8	44.6	353.6	22.1	142.7	19.4	62.1	3.8
	2	3260.0	53.5	42.8	481.3	36.6	154.8	19.7	63.3	4.0
	3	3410.6	65.9	58.9	435.1	37.8	152.7	21.2	67.8	4.0
	4	3247.1	80.9	45.7	429.8	41.7	145.3	20.0	58.6	3.9
	5	3263.3	75.1	68.8	366.1	22.7	158.1	19.1	62.0	3.9
	mean	3280.6	66.8	52.2	413.2	32.2	150.7	19.9	62.8	3.9
6	1	3206.4	58.9	68.1	373.7	37.6	146.1	20.4	59.4	3.9
	2	3076.9	53.0	47.5	424.6	22.4	136.9	18.0	59.6	3.7
	3	3236.5	77.3	49.2	354.3	34.0	148.1	18.1	57.7	3.8
	4	2672.9	49.3	39.1	325.0	20.6	139.7	17.9	56.3	3.6
	5	3494.5	74.2	73.2	399.4	43.2	154.5	20.4	64.1	4.0
	mean	3137.5	62.5	55.4	375.4	31.6	145.0	19.0	59.4	3.8
8	1	3280.4	63.4	50.5	394.9	35.0	145.0	20.4	63.1	3.9
	2	3391.3	90.1	75.5	535.5	46.0	149.2	18.9	56.5	3.9
	3	3497.1	86.1	76.9	415.8	33.4	136.3	19.4	50.7	3.9
	4	3272.0	71.7	66.5	417.7	43.1	142.5	20.7	60.4	3.9
	5	3256.6	53.4	53.5	377.8	40.9	133.7	18.9	58.2	3.9
	mean	3339.5	72.9	64.6	428.3	39.7	141.3	19.7	57.8	3.9
10	1	3227.9	58.7	48.2	372.5	29.1	129.9	16.9	44.3	3.9
	2	3299.2	83.3	64.9	477.9	36.8	142.8	20.2	56.9	4.0
	3	3312.2	65.4	64.5	466.8	27.8	136.5	18.6	49.2	3.9
	4	3257.5	63.4	63.1	410.9	15.9	138.4	17.9	50.6	3.9
	5	3699.7	82.9	75.6	418.9	35.7	146.3	19.5	58.3	4.0
	mean	3359.3	70.7	63.3	429.4	34.8	138.8	18.6	51.9	3.9
12	1	2565.8	47.0	63.5	507.1	32.0	97.0	7.1	17.4	3.0
	2	2327.1	48.3	54.6	532.0	20.3	124.4	9.6	27.7	3.1
	3	2775.9	50.2	43.8	514.8	28.8	97.6	13.4	29.8	3.3
	4	2710.6	60.9	79.3	673.3	44.3	77.7	8.5	18.5	3.1
	5	2530.5	63.0	52.3	582.4	28.3	123.5	9.2	25.0	3.2
	mean	2582.0	53.9	58.7	561.9	30.7	104.1	9.6	23.7	3.2
14	1	2668.2	63.5	67.1	563.9	n/a	48.4	n/a	1.2	3.3
	2	2890.0	73.1	68.4	589.0	47.3	83.3	1.4	20.5	3.0
	3	3246.0	94.5	87.0	572.6	56.4	90.0	2.7	24.8	3.2
	4	2939.3	60.6	72.2	569.9	41.4	90.4	8.2	23.7	3.3
	5	2560.5	58.0	55.5	575.3	n/a	45.1	2.9	7.9	2.9
	mean	2860.8	70.0	70.0	574.2	48.4	71.4	3.8	15.6	3.1

Table S13 *cont.*

16	1	2589.0	58.8	51.9	233.1	n/a	37.0	1.0	4.1	2.6
	2	2879.0	65.7	73.1	343.0	29.4	68.1	2.5	16.0	3.0
	3	2753.2	62.0	67.6	269.0	n/a	35.1	n/a	n/a	2.5
	4	2294.5	57.3	43.3	319.1	n/a	42.2	0.8	1.6	2.6
	5	3129.1	59.8	66.8	203.2	n/a	36.7	n/a	n/a	2.9
	mean	2729.0	60.7	60.5	273.5	29.4	43.8	1.4	7.2	2.7
18	1	2754.7	59.9	45.0	208.1	n/a	31.1	n/a	n/a	2.2
	2	2587.3	53.0	51.0	203.8	n/a	36.0	n/a	n/a	2.5
	3	3217.7	97.3	76.0	282.3	46.8	41.9	n/a	n/a	2.7
	4	3073.1	69.6	49.8	235.9	n/a	25.7	n/a	n/a	2.6
	5	2897.6	71.5	55.3	255.2	15.5	26.8	n/a	n/a	2.4
	mean	2906.1	70.3	55.4	237.1	31.2	32.3	n/a	n/a	2.5
20	1	3956.1	96.4	71.1	144.3	35.6	38.2	n/a	n/a	2.5
	2	3826.0	93.5	65.0	150.0	32.2	35.3	n/a	n/a	2.5
	3	3861.3	89.6	70.3	151.6	28.3	30.6	n/a	n/a	2.5
	4	3511.0	89.9	50.8	181.6	28.9	33.8	n/a	1.0	2.6
	5	3445.6	85.0	75.1	162.0	25.5	31.5	n/a	0.1	2.6
	mean	3720.0	90.9	66.5	157.9	30.1	33.9	n/a	0.6	2.5
22	1	3821.9	92.8	79.9	194.2	43.7	85.8	n/a	n/a	3.4
	2	3700.3	87.5	77.4	211.5	47.8	85.7	n/a	0.6	3.3
	3	3843.7	85.8	61.5	186.1	45.6	65.5	n/a	2.2	3.5
	4	3822.3	102.1	65.9	292.4	43.8	64.1	n/a	2.2	3.5
	5	3878.7	88.7	85.3	217.7	45.7	79.3	n/a	n/a	3.7
	mean	3813.4	91.4	74.0	220.4	45.3	76.1	n/a	1.7	3.5
24	1	3652.7	78.4	55.6	254.4	46.8	78.7	n/a	3.0	3.7
	2	3580.5	85.1	82.1	234.1	44.5	83.3	n/a	2.3	3.8
	3	3663.5	90.7	62.6	207.1	39.7	50.1	n/a	6.4	3.7
	4	3483.9	89.6	74.6	231.0	41.6	67.9	n/a	3.8	3.6
	5	3602.1	87.9	61.8	274.4	44.2	69.0	n/a	1.9	3.6
	mean	3596.5	86.3	67.3	240.2	43.4	69.8	n/a	3.5	3.7
26	1	4278.5	105.8	67.9	161.3	42.7	34.4	n/a	0.5	3.0
	2	4234.9	106.0	75.2	156.2	44.0	41.2	n/a	0.2	3.4
	3	3817.9	91.9	57.2	136.6	n/a	26.0	n/a	n/a	2.7
	4	4110.3	101.9	75.5	153.7	n/a	24.2	n/a	n/a	2.9
	5	4688.7	112.8	79.1	180.1	43.2	49.6	n/a	7.2	3.7
	mean	4226.1	103.7	71.0	157.6	43.3	35.1	n/a	2.6	3.1
28	1	3778.4	94.9	68.3	152.7	n/a	30.5	n/a	n/a	3.1
	2	3760.8	89.3	77.2	145.9	n/a	38.1	n/a	4.9	2.9
	3	4116.8	98.0	85.0	173.8	44.6	60.2	1.7	12.7	3.2
	4	4170.3	100.1	59.9	147.9	45.0	51.0	0.8	12.6	3.4
	5	4035.7	105.9	83.4	163.8	43.8	50.5	6.3	14.0	3.3
	mean	3972.4	97.6	74.8	156.8	44.5	46.1	2.9	11.0	3.2
30	1	2804.5	56.2	57.5	185.4	n/a	77.3	4.8	23.8	3.1
	2	3237.0	86.6	75.5	207.3	46.1	78.2	8.5	22.9	3.4
	3	3090.9	82.5	62.5	157.5	n/a	55.5	5.0	15.5	3.1
	4	2976.5	57.5	51.7	164.6	n/a	44.0	4.8	10.9	3.1
	5	3495.6	70.6	53.8	136.4	n/a	30.1	n/a	n/a	3.5
	mean	3120.9	70.7	60.2	170.2	46.1	57.0	5.8	18.3	3.2

Table S14
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-2 (0–30 cm depth) in the area of the Kamieniec Forest (LK)

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2898.8	48.6	30.0	567.4	6.2	122.0	16.6	43.9	3.9
	2	3243.4	50.4	27.9	579.8	14.3	123.2	17.4	44.1	4.1
	3	3080.7	51.6	35.8	466.0	3.7	121.4	15.8	44.8	4.5
	4	3171.1	57.0	47.6	405.0	8.7	127.4	16.9	41.2	4.0
	5	3131.6	48.7	32.1	372.3	7.4	122.8	18.0	49.5	4.0
	mean	3105.1	51.3	34.7	478.1	8.0	123.4	16.9	44.7	4.1
4	1	4239.9	94.5	68.5	698.7	44.1	126.9	19.8	56.2	4.7
	2	4426.0	84.0	64.9	793.6	41.5	124.6	19.4	55.8	4.8
	3	4186.2	89.9	77.7	760.9	41.8	120.6	21.0	50.3	4.7
	4	4212.9	92.4	75.2	706.7	41.6	120.9	22.1	52.7	4.7
	5	4279.5	104.8	87.5	654.7	41.5	124.4	17.4	54.8	4.6
	mean	4268.9	93.1	74.8	722.9	42.1	123.5	19.9	53.9	4.7
6	1	4214.2	93.4	80.0	635.4	41.3	109.2	18.4	42.7	4.6
	2	4225.8	93.6	78.6	657.0	41.6	113.6	18.1	41.8	4.6
	3	4295.5	96.5	65.3	666.2	43.0	116.4	18.1	47.7	4.7
	4	4980.8	107.2	66.4	658.7	45.8	124.1	19.9	54.7	4.8
	5	4773.0	104.4	70.7	711.9	43.8	103.1	19.5	38.9	4.8
	mean	4497.9	99.0	72.2	665.8	43.1	113.3	18.8	45.2	4.7
8	1	4184.0	89.9	74.4	566.5	45.7	117.8	19.8	39.4	4.7
	2	5276.1	114.8	91.4	1906.5	53.4	107.4	14.9	32.5	5.5
	3	4542.9	105.0	77.4	639.7	47.5	118.6	17.9	34.8	4.9
	4	5236.8	109.3	80.1	1215.8	48.3	112.3	18.4	34.7	4.9
	5	4171.1	89.0	67.3	714.1	46.3	110.5	16.8	36.7	4.7
	mean	4682.2	101.6	78.1	1008.5	48.2	113.3	17.6	35.6	5.0
10	1	5480.2	119.0	89.9	993.1	52.6	77.0	10.7	23.4	5.1
	2	4311.0	102.9	87.2	520.5	47.2	79.5	10.4	23.0	4.8
	3	5460.5	122.3	88.7	990.0	45.7	75.3	11.0	27.3	5.2
	4	5425.2	121.3	88.4	965.9	50.6	67.5	10.0	20.6	5.3
	5	4677.5	104.3	87.6	653.1	42.6	101.6	15.6	33.8	4.9
	mean	5070.9	114.0	88.4	824.5	48.2	80.2	11.5	25.6	5.1
12	1	5514.7	122.0	93.4	1084.1	49.7	43.5	10.1	22.5	5.8
	2	5498.1	121.7	91.4	1039.7	49.4	46.1	9.9	20.9	5.6
	3	5370.8	123.1	95.8	1421.0	52.2	42.8	10.3	27.5	5.5
	4	5481.9	118.9	91.5	1071.6	49.7	43.5	10.0	16.8	5.3
	5	5346.2	114.5	91.1	1024.0	49.7	45.2	6.8	15.6	5.0
	mean	5442.4	120.1	92.6	1128.1	50.1	44.2	9.4	20.7	5.5
14	1	5404.9	118.4	91.9	552.5	49.3	40.1	5.0	6.7	5.7
	2	5471.8	121.3	91.0	538.9	48.2	43.2	5.4	7.5	5.6
	3	5581.1	120.3	92.9	1101.0	52.4	44.9	6.5	18.7	5.4
	4	5296.7	108.9	92.5	596.8	55.8	45.7	5.2	8.6	5.5
	5	5378.3	113.7	90.1	378.2	52.3	40.9	6.9	13.8	5.2
	mean	5426.6	116.5	91.7	633.5	51.6	43.0	5.8	11.0	5.5

***Table S14** cont.*

16	1	5607.8	123.4	92.5	609.6	58.0	49.1	3.6	10.7	5.7
	2	5461.3	117.1	91.2	327.9	51.1	42.9	6.4	13.7	5.4
	3	5605.2	122.8	92.8	617.3	52.6	47.5	9.3	11.2	5.7
	4	5589.7	117.9	90.8	417.5	53.0	43.5	8.9	9.4	5.4
	5	5525.7	121.1	91.1	688.0	49.1	43.9	8.8	13.3	5.5
	mean	5557.9	120.5	91.7	532.1	52.8	45.4	7.4	11.6	5.5
18	1	3857.6	96.6	88.8	264.6	46.3	43.5	4.1	11.1	4.3
	2	4188.1	104.7	90.0	280.7	43.9	38.4	4.8	8.5	4.8
	3	3172.2	88.8	88.1	296.4	41.2	43.2	8.0	7.3	4.8
	4	3717.9	98.4	85.5	308.0	41.3	41.8	4.8	8.8	4.6
	5	4100.5	109.0	90.6	210.8	46.1	40.1	5.5	5.2	4.9
	mean	3807.3	99.5	88.6	272.1	43.8	41.4	5.4	8.2	4.7
20	1	4225.2	98.4	117.5	579.3	51.3	47.9	11.8	12.7	6.8
	2	4259.9	106.5	110.4	687.9	60.0	69.9	15.4	13.3	7.4
	3	4435.4	118.8	95.8	999.1	51.0	44.3	10.5	9.6	6.5
	4	4901.7	119.5	109.2	970.2	67.0	52.4	13.8	12.2	6.9
	5	4158.3	110.5	103.0	682.8	60.6	47.6	13.8	7.4	6.9
	mean	4396.1	110.8	107.2	783.9	58.0	52.4	13.0	11.0	6.9
22	1	5561.2	126.7	102.5	1281.0	64.9	44.3	n/a	9.0	6.3
	2	5569.6	123.8	92.2	1051.7	48.8	46.3	0.3	5.5	5.4
	3	5529.2	119.3	94.5	1001.3	59.1	43.4	1.5	9.2	5.6
	4	5480.7	122.6	97.2	1371.5	56.2	47.9	6.9	6.8	6.5
	5	5499.4	128.0	92.6	1070.2	52.3	38.8	1.3	5.0	5.3
	mean	5528.0	124.1	95.8	1155.1	56.3	44.1	2.5	7.1	5.8
24	1	5521.3	130.2	97.9	858.0	54.4	42.0	7.3	5.2	6.5
	2	5428.7	123.1	103.8	896.7	52.7	44.2	5.9	11.0	6.5
	3	5597.3	127.0	100.9	753.9	52.9	45.0	5.8	8.6	6.4
	4	5500.2	122.7	93.5	938.9	60.1	39.3	1.9	5.1	5.1
	5	5434.1	125.4	97.8	1045.1	59.9	49.1	6.8	12.4	6.5
	mean	5496.3	125.7	98.8	898.5	56.0	43.9	5.5	8.4	6.2
26	1	3160.1	75.1	89.6	331.7	46.5	40.0	7.6	5.9	5.2
	2	3032.1	77.8	91.7	321.2	43.5	41.3	6.9	9.6	5.2
	3	3449.3	89.3	93.1	424.2	49.7	45.7	10.7	9.6	6.1
	4	3111.0	83.1	88.6	342.2	45.7	40.5	7.9	5.3	5.0
	5	3870.2	106.1	98.2	403.5	51.4	47.1	13.6	12.7	6.5
	mean	3324.5	86.3	92.2	364.6	47.4	42.9	9.3	8.6	5.6
28	1	5429.1	121.9	91.5	543.3	53.7	44.5	4.8	9.0	6.5
	2	5388.1	118.2	90.0	639.2	50.6	44.9	4.9	11.1	5.5
	3	5283.3	112.4	93.0	983.4	55.5	49.9	7.4	9.9	6.0
	4	4222.8	109.7	102.1	671.1	54.4	50.3	6.5	13.6	6.5
	5	5461.6	119.9	93.3	822.1	53.3	50.8	5.5	8.7	6.3
	mean	5157.0	116.4	94.0	731.8	53.5	48.1	5.8	10.5	6.2
30	1	5315.9	119.2	93.8	291.2	57.8	47.6	6.4	7.8	6.7
	2	5317.3	119.5	100.0	332.7	62.5	42.3	8.0	14.7	6.5
	3	5378.7	122.5	116.4	417.2	62.3	40.6	7.9	10.3	7.4
	4	5351.6	123.3	89.6	379.8	58.0	39.4	3.5	9.4	5.6
	5	5398.1	122.2	107.3	399.9	73.2	47.3	5.5	10.9	6.9
	mean	5352.3	121.3	101.4	364.2	60.2	43.4	6.3	10.6	6.6

Table S15
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-15 (0–30 cm depth) in the area of the Kamieniec Forest (LK)

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2686.9	31.7	19.2	620.3	6.2	109.7	20.9	71.9	3.4
	2	3460.4	52.6	36.8	677.0	28.4	116.5	24.3	77.1	3.9
	3	3131.3	50.2	31.4	902.8	15.0	125.1	21.7	69.9	3.6
	4	3144.5	43.1	23.9	658.5	6.7	109.3	22.6	73.0	3.6
	5	3490.6	56.8	38.9	715.3	22.4	117.9	23.7	83.3	3.9
	mean	3182.7	46.9	30.0	714.8	15.7	115.7	22.6	75.1	3.7
4	1	4060.4	80.9	39.3	777.0	34.0	130.7	24.6	74.8	4.2
	2	4001.2	92.4	52.6	719.3	42.7	128.0	25.1	76.8	4.2
	3	4340.1	87.3	45.4	708.5	34.2	122.3	25.0	69.0	4.2
	4	4124.3	85.5	63.4	745.7	36.8	127.6	24.3	77.4	4.2
	5	3699.4	68.9	46.3	678.2	22.4	121.9	25.4	79.7	4.0
	mean	4045.1	83.0	49.4	725.8	34.0	126.1	24.9	75.5	4.2
6	1	4322.3	97.9	69.1	650.1	38.5	125.8	26.3	79.3	4.2
	2	5283.6	95.0	75.7	925.3	36.3	129.5	29.5	96.0	4.7
	3	5015.2	101.0	78.1	871.1	43.5	129.0	34.4	95.3	4.6
	4	4913.5	95.7	87.3	686.8	41.0	124.5	28.2	80.8	4.5
	5	5249.9	112.2	62.0	835.1	35.1	129.2	28.5	90.0	4.7
	mean	4956.9	100.4	74.5	793.7	38.9	127.6	29.4	88.3	4.6
8	1	4196.2	94.3	65.9	637.3	36.7	123.0	25.9	79.4	4.5
	2	5286.3	109.1	80.0	750.4	45.1	129.0	26.6	96.2	4.7
	3	5003.0	105.2	72.3	703.6	43.9	118.5	25.9	84.3	4.7
	4	4386.8	100.4	59.6	640.5	43.8	125.3	26.2	80.1	4.7
	5	5105.4	98.8	77.9	784.8	39.6	121.0	27.6	95.4	4.6
	mean	4795.6	101.5	71.1	703.3	41.8	123.3	26.4	87.1	4.6
10	1	5386.8	109.5	78.2	731.9	49.7	102.4	20.6	67.7	4.7
	2	5310.1	112.4	77.2	855.1	43.0	88.2	21.0	63.7	4.7
	3	5155.1	109.2	74.8	738.5	43.1	101.5	22.0	63.1	4.6
	4	5388.9	115.1	87.2	652.7	46.3	102.0	26.0	66.4	4.7
	5	5489.7	121.2	88.4	676.1	49.9	98.5	21.1	65.3	4.7
	mean	5346.1	113.5	81.2	730.9	44.6	98.5	22.1	65.2	4.7
12	1	5376.2	112.6	87.2	721.4	44.7	107.7	22.4	57.3	5.3
	2	5434.7	114.6	74.2	659.1	48.0	101.8	18.7	42.4	4.7
	3	5354.9	104.2	79.5	639.6	45.8	102.3	20.1	41.6	4.7
	4	5412.4	105.3	76.8	612.0	44.1	103.4	19.7	45.6	4.7
	5	5304.3	112.3	87.2	577.7	41.2	92.9	18.8	44.1	4.6
	mean	5376.5	109.8	81.0	641.9	44.8	101.6	19.9	46.2	4.8
14	1	5598.9	112.7	83.9	654.5	45.4	77.4	15.6	30.4	5.0
	2	5505.1	115.8	88.5	649.0	41.4	78.2	14.2	33.3	4.7
	3	5424.9	107.9	80.1	595.9	47.5	75.9	15.2	29.8	4.9
	4	5556.7	110.6	88.6	636.2	44.0	75.7	14.6	28.7	4.8
	5	5501.1	115.0	74.5	664.4	42.2	75.7	15.9	34.1	4.8
	mean	5517.3	112.4	83.1	640.0	44.1	76.6	15.1	31.3	4.8

***Table S15** cont.*

16	1	5438.3	111.4	87.8	673.2	49.0	59.1	16.2	27.2	4.8
	2	5412.1	117.6	87.8	1037.9	45.7	83.8	14.4	28.9	4.9
	3	5388.0	116.5	84.0	628.2	44.5	68.0	16.1	22.7	4.8
	4	5501.0	112.0	73.9	706.2	43.8	67.6	15.7	25.0	4.8
	5	5213.0	112.0	86.8	775.0	43.1	85.3	15.7	32.5	5.2
	mean	5390.5	113.9	84.1	764.1	45.2	72.8	15.6	27.3	4.9
18	1	5342.8	112.7	76.7	581.3	48.9	76.7	7.3	22.9	4.8
	2	5378.3	105.0	84.1	809.9	44.5	67.1	7.6	21.6	5.0
	3	5414.9	108.7	82.2	514.2	43.7	85.1	11.2	24.4	4.8
	4	5388.9	113.8	87.5	653.8	46.3	74.6	11.0	20.8	4.8
	5	5514.3	112.9	90.5	692.3	44.9	68.8	10.1	16.5	4.9
	mean	5407.8	110.6	84.2	650.3	45.6	74.5	9.4	21.2	4.8
20	1	5380.7	116.6	78.7	559.9	50.3	70.7	9.7	13.5	5.0
	2	5513.0	116.7	86.8	842.8	42.6	64.4	10.0	24.9	4.8
	3	5450.9	119.1	87.9	534.9	48.2	60.4	9.3	16.0	5.1
	4	4996.6	105.7	90.7	426.5	49.7	51.5	5.5	11.3	5.1
	5	5424.2	113.5	88.5	534.0	42.9	53.9	6.8	12.5	5.0
	mean	5353.1	114.3	86.5	579.6	46.8	60.2	8.2	15.6	5.0
22	1	5495.7	119.4	97.7	485.5	47.1	96.5	12.8	22.1	6.9
	2	5285.0	119.6	90.9	529.0	45.1	83.3	11.2	26.6	5.1
	3	5281.0	113.6	89.6	632.7	45.9	56.0	9.7	14.8	5.1
	4	5571.8	122.0	94.6	637.4	54.3	99.3	14.9	23.1	6.8
	5	5461.6	126.0	115.7	566.6	57.7	109.1	15.4	28.2	8.1
	mean	5419.0	120.1	97.7	570.2	50.0	88.8	12.8	23.0	6.4
24	1	5299.5	112.2	87.9	584.7	49.5	67.3	9.4	19.8	5.1
	2	5201.0	115.9	93.9	470.6	51.5	68.8	6.7	6.9	5.3
	3	5325.0	117.3	92.8	494.8	51.4	54.4	7.0	13.3	5.3
	4	5300.4	110.1	89.6	451.5	51.8	50.7	4.9	11.0	5.1
	5	5312.5	114.2	93.0	569.2	50.6	59.7	8.8	13.4	5.2
	mean	5287.7	113.9	91.4	514.1	51.0	60.2	7.3	12.9	5.2
26	1	4779.0	100.7	90.0	402.2	47.7	70.3	8.7	14.0	5.3
	2	4662.3	109.1	91.7	315.3	55.6	51.0	5.5	8.1	5.5
	3	5281.5	121.7	90.2	575.8	47.3	44.9	7.4	20.3	5.2
	4	5281.0	110.8	89.5	567.2	54.0	53.3	4.6	13.5	5.3
	5	4578.5	99.8	90.2	362.6	49.3	54.2	9.1	11.3	5.5
	mean	4916.5	108.4	90.3	444.6	50.8	54.7	7.1	13.4	5.4
28	1	5300.7	112.4	87.8	522.0	51.9	50.6	8.1	13.1	5.1
	2	5203.6	114.9	83.4	596.1	57.2	44.4	7.3	10.5	5.3
	3	5295.0	108.7	90.4	489.4	47.1	46.5	7.1	10.7	5.4
	4	5423.6	112.4	88.2	592.0	59.8	48.9	8.6	12.4	5.2
	5	5128.2	113.2	83.1	447.2	48.0	44.9	7.4	17.7	5.3
	mean	5270.2	112.3	86.6	529.3	52.8	47.1	7.7	12.9	5.3
30	1	5221.4	108.7	73.8	565.8	46.2	50.2	10.1	20.3	4.9
	2	4613.1	93.9	74.5	425.6	52.2	48.5	8.9	14.0	4.9
	3	5220.7	111.6	80.6	573.9	50.5	47.0	9.4	14.9	5.0
	4	4969.9	110.0	87.3	416.4	50.9	48.4	10.4	23.4	4.8
	5	4717.3	107.1	87.8	455.3	51.9	48.1	9.5	9.6	5.0
	mean	4948.5	106.3	80.8	487.4	50.4	48.4	9.7	16.5	4.9

Table S16

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-34 (0–24 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3237.7	56.9	36.3	582.6	25.1	133.3	22.1	73.8	3.9
	2	3059.0	50.2	29.9	564.5	8.0	128.9	20.2	64.8	3.9
	3	3248.0	54.9	34.2	257.8	33.1	130.9	21.6	75.2	3.9
	4	2921.4	46.4	31.1	522.4	2.1	130.7	20.3	67.7	3.8
	5	3023.7	42.7	30.8	508.5	22.7	128.2	19.5	61.7	3.8
	mean	3097.9	50.2	32.5	487.2	18.2	130.4	20.8	68.7	3.9
4	1	3815.6	78.8	60.8	597.6	38.4	140.1	22.8	79.7	4.2
	2	4149.3	88.1	75.4	707.9	39.7	157.1	24.8	92.3	4.7
	3	3274.5	65.8	47.3	600.1	41.4	138.2	22.5	74.2	4.1
	4	3245.9	54.1	39.4	624.5	10.6	126.6	19.7	61.2	3.9
	5	3760.2	64.9	49.0	603.8	27.3	143.9	22.5	82.5	4.2
	mean	3649.1	70.3	54.4	626.8	31.5	141.2	22.5	78.0	4.2
6	1	3887.9	82.5	52.0	666.2	42.4	144.2	24.6	80.2	4.2
	2	4168.7	92.4	79.4	750.8	42.4	160.4	25.6	92.6	4.7
	3	4399.7	91.7	70.9	763.4	46.2	149.8	26.0	90.2	4.7
	4	4050.5	93.8	68.2	700.4	41.5	149.4	24.6	85.4	4.5
	5	3847.3	76.5	73.4	690.4	37.9	146.5	22.0	79.5	4.2
	mean	4070.8	87.4	68.8	714.2	42.1	150.1	24.6	85.6	4.5
8	1	4200.8	88.9	73.4	751.5	41.4	155.1	22.2	78.3	4.7
	2	4220.2	96.1	63.6	661.7	34.1	141.6	22.2	76.5	4.6
	3	4295.3	98.5	80.2	668.6	50.4	173.6	25.4	95.5	4.8
	4	4163.4	91.7	69.6	752.3	41.5	150.0	25.5	82.3	4.6
	5	3950.2	94.0	57.8	653.1	42.9	136.4	23.3	73.4	4.6
	mean	4166.0	93.8	68.9	697.4	42.0	151.3	23.7	81.2	4.7
10	1	4981.4	104.4	79.4	855.4	37.3	108.2	15.4	33.9	4.8
	2	4778.9	101.3	79.4	754.1	41.0	78.4	12.3	28.2	4.7
	3	5377.2	113.6	91.8	978.0	46.8	94.7	9.9	26.2	4.8
	4	4652.2	98.2	77.5	780.7	45.5	101.2	16.8	43.3	4.8
	5	5295.9	111.5	81.6	707.9	45.8	74.1	11.8	26.9	4.7
	mean	5017.1	105.8	81.9	815.2	42.7	91.3	13.2	31.7	4.8
12	1	5293.3	111.2	80.6	764.2	48.2	48.0	8.9	18.3	4.8
	2	5331.1	112.7	83.6	757.5	45.4	40.7	8.8	16.5	4.8
	3	5272.3	112.3	85.4	768.9	50.1	47.1	10.8	26.9	4.8
	4	4736.3	100.5	78.8	669.8	46.7	42.5	10.0	24.0	4.7
	5	5312.6	113.7	78.0	791.1	49.6	39.6	6.5	14.3	4.8
	mean	5189.1	110.1	81.3	750.3	48.0	43.6	9.0	20.0	4.8
14	1	4699.1	104.1	84.8	979.5	42.9	86.4	15.6	36.4	4.9
	2	4239.9	100.8	72.9	805.6	7.2	38.6	10.3	15.4	4.5
	3	4440.8	100.5	75.4	779.9	41.6	98.0	18.8	46.6	4.7
	4	4522.0	105.9	62.8	908.1	n/a	35.8	9.6	15.8	4.6
	5	5295.5	105.2	88.2	743.4	n/a	26.2	5.9	1.7	4.7
	mean	4639.5	103.3	76.8	843.3	30.6	57.0	12.0	23.2	4.7

Table S16 *cont.*

16	1	5152.0	108.0	75.2	615.8	43.7	45.8	9.6	24.6	4.8
	2	4423.9	103.4	76.9	817.5	n/a	35.3	9.5	9.6	4.9
	3	4172.9	102.0	88.0	543.8	n/a	27.0	0.3	0.8	4.6
	4	4377.9	99.0	71.9	472.8	n/a	22.0	0.8	0.1	4.5
	5	4738.0	108.5	83.3	601.7	n/a	25.0	2.9	n/a	4.5
	mean	4572.9	104.2	79.1	610.3	43.7	31.0	4.6	8.8	4.7
18	1	4034.2	92.3	75.5	652.0	n/a	33.9	6.2	8.5	4.3
	2	4021.1	92.5	71.0	576.1	n/a	30.8	2.6	2.8	4.2
	3	3942.1	90.6	75.3	542.6	n/a	33.5	3.8	12.0	4.2
	4	3292.8	74.5	51.3	600.0	n/a	34.2	8.9	14.9	3.9
	5	3999.7	86.9	65.1	639.2	n/a	36.1	5.4	7.1	4.2
	mean	3858.0	87.4	67.6	602.0	n/a	33.7	5.4	9.1	4.2
20	1	3790.9	83.4	75.5	469.4	n/a	29.4	n/a	n/a	4.2
	2	4115.5	108.9	87.6	382.6	12.1	27.9	n/a	n/a	4.7
	3	3620.8	80.8	69.4	537.8	n/a	19.3	n/a	n/a	4.0
	4	3228.8	75.0	64.4	501.1	n/a	19.7	n/a	n/a	3.8
	5	3375.7	99.3	82.8	542.2	n/a	19.1	n/a	n/a	3.8
	mean	3626.4	89.5	75.9	486.6	12.1	23.1	n/a	n/a	4.1
22	1	4332.1	111.2	75.1	322.9	n/a	21.4	n/a	n/a	4.7
	2	4443.3	110.4	81.6	337.8	n/a	18.5	n/a	n/a	4.0
	3	4262.9	104.6	77.8	396.3	n/a	21.0	n/a	n/a	4.6
	4	4302.6	105.9	88.5	350.7	n/a	25.5	n/a	n/a	4.8
	5	4234.5	112.4	77.4	566.7	n/a	26.9	1.7	1.7	4.5
	mean	4315.1	108.9	80.1	394.9	n/a	22.7	1.7	1.7	4.6
24	1	3466.5	89.6	78.0	234.6	n/a	26.6	3.7	0.8	4.1
	2	3305.6	80.9	73.0	287.6	n/a	25.0	1.2	n/a	4.2
	3	3226.7	58.2	47.9	252.8	n/a	21.5	0.1	0.9	3.9
	4	3207.3	63.4	42.4	171.2	n/a	17.8	n/a	n/a	3.9
	5	3041.4	60.5	67.2	260.6	n/a	25.4	1.9	5.0	3.8
	mean	3249.5	70.5	61.7	241.4	n/a	23.2	1.7	2.2	4.0

Table S17
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-35 (0–28 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2001.9	20.5	8.3	275.7	n/a	50.5	10.5	0.3	34.7
	2	2210.2	24.3	17.4	488.7	n/a	72.1	15.2	0.3	38.0
	3	1876.6	14.3	5.8	511.0	n/a	61.5	13.7	0.3	39.9
	4	2136.3	18.3	5.7	406.8	n/a	65.1	13.8	0.3	34.6
	5	1882.2	13.8	1.6	315.5	n/a	49.4	11.3	0.3	32.7
	mean	2021.4	18.2	7.7	399.5	n/a	59.7	12.9	0.3	36.0
4	1	2627.5	42.5	28.5	396.1	13.4	80.4	15.6	0.3	36.0
	2	2672.2	43.5	32.3	448.4	5.1	78.0	15.4	0.3	36.8
	3	2051.8	18.3	16.5	125.6	n/a	51.1	12.7	0.3	33.4
	4	2983.9	48.3	37.8	264.2	4.7	81.9	14.8	0.3	37.0
	5	1912.2	13.4	2.7	253.2	n/a	56.5	10.4	0.3	34.5
	mean	2449.5	33.2	23.6	297.5	7.7	69.6	13.8	0.3	35.6
6	1	3387.2	75.6	45.8	841.0	34.5	103.5	17.8	0.4	49.8
	2	3199.1	52.1	47.6	457.6	34.0	103.9	15.8	0.3	43.3
	3	3476.2	61.4	44.2	338.1	36.0	106.7	17.6	0.3	48.6
	4	3603.7	63.3	46.3	706.9	34.0	97.4	16.7	0.4	43.2
	5	3385.3	79.8	53.4	366.2	35.0	102.4	19.4	0.4	46.2
	mean	3410.3	66.4	47.5	542.0	34.7	102.8	17.5	0.3	46.2
8	1	4879.1	101.7	77.7	280.5	46.4	128.2	21.2	0.4	71.6
	2	4039.5	85.5	74.6	716.5	31.6	130.4	21.0	0.3	66.2
	3	4519.3	101.5	79.9	289.2	47.6	121.8	19.7	0.3	64.3
	4	4701.2	89.6	70.8	833.8	41.5	125.2	19.9	0.3	54.0
	5	4081.7	91.0	77.0	621.3	33.3	125.3	21.1	0.3	68.4
	mean	4444.2	93.9	76.0	548.3	40.1	126.2	20.6	0.3	64.9
10	1	3203.6	57.7	35.3	395.6	26.8	63.0	10.0	0.3	30.7
	2	4998.5	100.3	81.3	569.8	41.3	97.0	16.0	0.3	31.7
	3	3040.2	58.5	35.6	257.8	22.3	53.1	8.2	0.3	24.7
	4	3187.1	49.3	36.9	536.8	n/a	50.0	10.0	0.3	29.9
	5	4949.8	107.3	87.4	561.5	44.3	99.9	11.3	0.3	27.2
	mean	3875.8	74.6	55.3	464.3	36.5	72.6	11.1	0.3	28.8
12	1	3911.5	92.4	60.0	413.5	34.8	104.1	17.3	0.3	42.6
	2	4540.4	104.3	84.1	372.8	43.8	100.6	16.0	0.3	33.6
	3	3964.8	78.2	63.5	589.4	n/a	72.5	14.8	0.2	32.1
	4	5275.3	106.5	78.8	431.3	41.6	90.4	11.9	0.3	28.7
	5	4153.7	90.0	78.4	295.6	30.6	100.1	15.4	0.3	35.4
	mean	4369.1	94.3	73.0	420.5	37.7	93.5	15.1	0.3	34.5
14	1	3687.7	86.6	50.7	396.5	n/a	53.2	14.6	0.2	31.5
	2	4846.1	104.0	77.6	488.0	39.5	98.3	17.0	0.3	34.5
	3	5325.0	112.7	89.8	441.1	45.6	113.5	14.3	0.3	32.1
	4	5268.0	104.3	89.3	567.5	47.6	102.4	16.9	0.3	39.3
	5	4789.3	104.3	80.1	552.5	38.6	105.1	16.6	0.3	36.0
	mean	4783.2	102.4	77.5	489.1	42.8	94.5	15.9	0.3	34.7

***Table S17** cont.*

16	1	4018.5	88.8	71.4	209.9	3.5	33.6	7.4	0.2	n/a
	2	4528.4	99.0	83.1	526.2	37.2	71.8	11.2	0.3	30.6
	3	3969.6	94.0	79.0	260.1	n/a	29.8	4.9	0.2	1.7
	4	3833.9	85.8	69.2	245.9	n/a	41.4	7.1	0.2	11.1
	5	4130.2	88.7	80.7	297.1	n/a	31.1	5.6	0.2	2.0
	mean	4096.1	91.3	76.7	307.9	20.3	41.5	7.3	0.2	11.4
18	1	4941.3	103.5	72.9	668.5	n/a	26.8	3.8	0.2	2.7
	2	4601.3	105.2	84.6	511.1	n/a	23.8	1.7	0.2	n/a
	3	4255.7	94.3	76.2	551.9	n/a	24.0	2.2	0.2	0.9
	4	4519.4	99.9	67.4	530.1	n/a	25.0	3.7	0.2	0.8
	5	4480.9	110.3	85.1	371.8	n/a	24.1	n/a	0.2	n/a
	mean	4559.7	102.6	77.2	526.7	n/a	24.7	2.8	0.2	1.5
20	1	3966.3	86.2	58.1	384.3	n/a	20.2	n/a	0.1	0.3
	2	3893.3	84.4	45.8	335.2	n/a	23.7	n/a	0.1	1.6
	3	4333.3	88.2	74.7	302.3	n/a	20.3	3.2	0.2	n/a
	4	4220.5	99.3	61.3	233.3	n/a	24.5	1.2	0.2	n/a
	5	4588.3	105.1	77.1	303.7	n/a	24.9	0.4	0.2	0.2
	mean	4200.3	92.6	63.4	311.7	n/a	22.7	1.6	0.2	0.7
22	1	3207.6	83.7	81.8	254.3	n/a	32.5	6.4	0.2	n/a
	2	3000.9	63.0	77.1	234.9	n/a	19.4	3.9	0.2	n/a
	3	2900.5	54.7	50.5	80.8	n/a	18.1	n/a	0.2	n/a
	4	2813.6	54.2	74.9	153.3	n/a	21.2	1.3	0.3	n/a
	5	3066.4	86.1	92.0	332.1	13.5	32.8	6.7	0.2	n/a
	mean	2997.8	68.3	75.3	211.1	13.5	24.8	4.6	0.2	n/a
24	1	4243.3	100.6	74.7	197.9	n/a	23.4	2.0	0.2	n/a
	2	4178.1	104.9	84.9	648.5	1.6	20.3	n/a	0.2	n/a
	3	4479.5	105.0	77.4	796.6	n/a	24.6	n/a	0.2	n/a
	4	4532.2	112.8	83.5	231.1	n/a	29.4	n/a	0.2	n/a
	5	4660.6	105.5	78.4	283.0	n/a	25.1	2.1	0.2	n/a
	mean	4418.7	105.8	79.8	431.4	1.6	24.6	2.0	0.2	n/a
26	1	3627.7	91.3	89.0	197.6	14.0	32.9	5.5	0.2	n/a
	2	3430.7	84.7	67.7	230.5	n/a	29.3	1.7	0.1	n/a
	3	4422.2	103.5	89.4	274.8	13.2	39.2	8.2	0.2	1.0
	4	3789.5	104.6	88.0	113.6	n/a	27.9	1.5	0.1	n/a
	5	4395.0	103.1	88.9	276.0	8.2	34.4	6.6	0.2	2.4
	mean	3933.0	97.4	84.6	218.5	11.8	32.7	4.7	0.2	1.7
28	1	4759.5	109.6	81.0	299.4	3.1	31.0	4.6	0.2	n/a
	2	4570.6	103.9	87.5	269.7	n/a	27.4	6.6	0.2	1.7
	3	4662.3	111.3	81.5	577.1	n/a	29.2	7.2	0.2	4.1
	4	4214.7	104.1	81.2	296.6	8.7	24.3	3.3	0.2	n/a
	5	4495.7	108.7	86.9	444.6	n/a	40.0	8.1	0.1	n/a
	mean	4540.6	107.5	83.6	377.5	5.9	30.4	5.9	0.2	2.9

Table S18
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-39 (0–22 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2449.0	33.8	31.3	834.9	23.0	160.2	17.5	67.4	3.8
	2	2474.5	38.9	24.7	894.8	15.3	158.6	20.7	73.1	3.8
	3	3242.3	57.5	56.0	1064.1	44.6	189.2	23.5	88.3	4.6
	4	2404.3	38.8	16.3	873.9	5.6	159.3	19.0	59.1	3.8
	5	2713.3	37.5	37.7	903.5	37.1	169.2	19.7	70.8	3.9
	mean	2656.7	41.3	33.2	914.3	25.1	167.3	20.1	71.8	4.0
4	1	4001.6	83.7	62.2	1135.8	61.2	218.6	26.2	110.2	4.8
	2	2885.0	49.2	32.1	1001.1	33.5	193.4	22.9	82.9	4.2
	3	3701.8	65.4	53.5	1105.2	47.6	195.7	25.3	93.8	4.8
	4	3669.3	83.4	50.0	1086.9	48.5	203.3	27.6	96.7	4.8
	5	3743.3	79.3	71.9	1181.8	47.6	221.5	29.2	108.0	4.8
	mean	3600.2	72.2	54.0	1102.2	47.7	206.5	26.2	98.3	4.7
6	1	4479.9	93.0	86.8	1083.8	50.6	133.7	14.1	36.8	4.9
	2	4567.0	95.1	87.7	1120.4	46.9	138.7	16.8	45.3	4.9
	3	4638.3	107.6	85.1	1311.7	52.1	146.1	16.5	48.2	4.9
	4	5268.2	111.8	82.3	1098.2	54.1	132.1	13.0	35.7	5.2
	5	4397.8	104.8	78.6	1160.8	52.5	140.9	19.7	66.4	4.9
	mean	4670.2	102.5	84.1	1155.0	51.3	138.3	16.0	46.5	5.0
8	1	5082.7	105.0	89.7	1087.5	51.4	128.0	14.8	38.2	5.2
	2	4599.9	108.1	88.2	1160.0	60.8	135.9	17.9	43.7	5.1
	3	4938.4	107.1	84.4	1144.9	48.7	127.1	11.0	27.0	5.2
	4	4999.4	106.8	87.5	1056.2	50.1	122.2	11.5	31.6	5.3
	5	4774.5	109.4	79.5	1143.5	53.9	99.8	9.9	27.8	5.1
	mean	4879.0	107.3	85.9	1118.4	53.0	122.6	13.0	33.7	5.2
10	1	4580.4	98.3	87.8	557.8	51.2	103.4	n/a	13.0	5.3
	2	4731.1	105.4	89.5	462.5	49.6	98.1	n/a	11.4	5.3
	3	4340.3	104.8	80.0	613.9	49.4	92.1	1.5	10.9	4.8
	4	4639.7	111.8	91.7	691.0	55.0	97.9	0.3	14.4	5.4
	5	4430.8	104.8	87.8	548.8	57.7	95.3	n/a	10.2	5.2
	mean	4544.5	105.0	87.4	574.8	52.6	97.4	0.9	12.0	5.2
12	1	4247.0	104.6	88.3	1009.6	52.5	79.7	4.8	14.1	5.0
	2	4744.9	106.6	87.3	1036.2	54.8	95.9	5.7	12.0	5.2
	3	4234.1	104.4	86.9	1036.2	55.4	113.2	11.4	31.3	5.1
	4	4124.4	90.7	86.9	983.3	51.7	85.8	4.3	15.3	5.0
	5	4906.5	108.5	88.3	1054.4	55.3	107.3	3.9	23.8	5.3
	mean	4451.4	103.0	87.5	1023.9	53.9	96.4	6.0	19.3	5.1
14	1	4703.3	105.1	86.3	1062.1	52.2	84.5	5.9	22.1	5.1
	2	4518.2	92.4	81.5	1094.7	51.5	89.2	4.8	19.6	5.1
	3	4383.4	105.9	88.4	1073.9	58.9	75.8	5.6	12.8	5.0
	4	4388.4	102.7	89.1	1092.9	54.0	95.0	7.1	23.5	5.2
	5	4635.9	102.3	87.2	1100.2	53.6	90.5	7.8	26.2	5.2
	mean	4525.8	101.7	86.5	1084.8	54.0	87.0	6.3	20.8	5.1

***Table S18** cont.*

16	1	3383.2	92.4	79.6	987.4	59.2	75.4	1.5	19.3	4.7
	2	3951.9	91.6	76.4	1025.7	64.2	95.8	4.8	22.5	4.9
	3	3623.4	85.8	83.3	1008.7	47.0	74.6	2.3	14.6	4.8
	4	3481.5	91.9	75.5	1007.7	75.4	82.1	2.4	13.6	4.7
	5	3275.3	87.0	77.1	1028.3	59.1	88.8	8.0	27.0	4.5
	mean	3543.1	89.7	78.4	1011.6	61.0	83.3	3.8	19.4	4.7
18	1	2043.6	46.2	48.7	992.1	42.3	56.3	0.1	12.1	3.4
	2	2092.1	44.5	41.1	964.4	41.2	70.4	4.7	13.1	3.5
	3	2172.0	44.9	47.8	970.4	46.3	56.0	n/a	14.8	3.3
	4	2207.5	57.2	54.8	983.4	42.3	89.4	2.6	13.0	3.6
	5	2269.8	55.0	47.2	1013.1	52.8	70.3	1.1	17.0	3.6
	mean	2157.0	49.6	47.9	984.7	45.0	68.5	2.1	14.0	3.5
20	1	2584.6	52.1	79.6	494.3	65.9	73.6	n/a	5.2	2.9
	2	2388.6	77.1	55.2	509.3	49.5	48.0	n/a	8.8	2.8
	3	2561.1	65.4	63.4	486.2	48.7	49.2	n/a	3.3	3.1
	4	2618.3	61.0	75.3	520.6	68.9	45.8	n/a	3.1	3.0
	5	2577.7	79.0	60.9	513.2	47.0	51.8	n/a	9.5	3.8
	mean	2546.1	66.9	66.9	504.7	56.0	53.7	n/a	6.0	3.1
22	1	2877.9	53.9	55.7	609.4	47.1	51.3	n/a	10.1	3.9
	2	3205.9	84.9	80.9	588.2	50.1	33.7	n/a	4.3	3.9
	3	3146.0	70.0	65.1	606.7	52.3	44.1	0.8	10.1	4.1
	4	2841.1	76.1	64.9	685.5	54.0	39.9	n/a	7.1	4.2
	5	3140.4	86.7	74.9	920.2	51.2	46.6	n/a	11.7	4.6
	mean	3042.3	74.3	68.3	682.0	51.0	43.1	0.8	8.7	4.1

Table S19
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-40 (0–28 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	2674.1	30.4	20.9	694.1	n/a	138.1	16.2	68.1	3.5
	2	2877.6	40.9	27.2	882.2	11.9	110.6	19.8	60.3	3.7
	3	3004.2	41.4	34.3	799.3	35.2	131.3	18.9	69.5	3.9
	4	3129.3	41.0	27.5	935.6	33.0	119.9	18.9	54.6	3.7
	5	3010.0	44.6	30.7	720.2	6.7	122.3	19.2	66.4	3.8
	mean	2939.0	39.7	28.1	806.3	21.7	124.5	18.6	63.8	3.7
4	1	4207.7	88.9	48.8	1067.1	45.9	142.2	21.7	78.4	4.4
	2	4192.9	88.9	57.2	934.1	41.9	134.5	20.5	71.1	4.3
	3	4198.6	104.2	57.5	1082.1	43.1	146.8	22.4	79.3	4.6
	4	4362.0	87.3	73.7	1063.2	41.1	142.8	21.6	77.5	4.6
	5	4379.2	88.3	73.0	1060.3	42.5	147.0	21.8	93.1	4.6
	mean	4268.1	91.5	62.0	1041.4	42.9	142.6	21.6	79.9	4.5
6	1	3871.1	69.1	42.3	688.7	44.5	130.3	19.0	70.3	4.1
	2	4189.7	79.2	41.6	942.9	38.4	129.0	20.2	73.0	4.2
	3	4032.8	70.6	50.3	863.6	37.5	138.7	19.9	75.2	4.2
	4	4179.7	105.1	62.1	995.3	53.4	131.1	15.6	53.5	4.2
	5	4268.0	92.5	74.6	1010.5	45.8	129.0	17.3	56.6	4.5
	mean	4108.3	83.3	54.2	900.2	43.9	131.6	18.4	65.7	4.2
8	1	4343.8	101.2	79.2	1009.2	44.1	127.1	18.4	52.9	4.8
	2	4843.6	105.3	77.1	1126.9	46.9	132.8	17.5	48.8	4.5
	3	4609.2	103.9	48.5	1114.4	48.1	130.8	18.1	58.5	4.6
	4	4560.8	102.2	76.8	1007.5	50.0	128.8	16.6	50.6	4.7
	5	5011.2	104.3	75.7	1077.5	45.9	127.6	16.8	47.1	4.6
	mean	4673.7	103.4	71.4	1067.1	47.0	129.4	17.5	51.6	4.6
10	1	5062.1	111.4	88.8	995.3	45.4	82.8	2.1	14.0	4.7
	2	4796.5	109.9	74.9	980.0	44.0	100.6	9.6	31.9	4.7
	3	4951.1	113.3	83.6	1063.8	44.0	90.1	1.5	12.2	4.6
	4	5210.7	109.4	87.7	1009.4	48.9	84.9	4.8	15.0	4.8
	5	5355.5	112.2	87.1	940.4	44.9	101.0	10.0	28.1	4.8
	mean	5075.2	111.2	84.4	997.8	46.5	91.9	5.6	20.2	4.7
12	1	5302.8	110.4	91.3	872.5	4.4	44.8	1.3	8.5	6.5
	2	5459.2	118.1	87.6	846.5	48.3	47.9	2.6	15.4	5.4
	3	5423.9	116.5	92.2	945.6	45.9	56.7	2.1	17.7	5.4
	4	5495.0	115.9	88.2	597.5	47.1	57.2	0.2	15.9	5.3
	5	5314.9	117.5	89.6	664.0	15.4	39.3	0.9	5.6	6.5
	mean	5399.1	115.7	89.8	785.2	32.2	49.2	1.4	12.6	5.8
14	1	4954.7	105.3	87.5	540.9	n/a	28.7	n/a	n/a	4.6
	2	5039.9	109.6	72.7	389.5	n/a	29.0	n/a	n/a	4.6
	3	4655.1	117.7	78.7	1251.8	n/a	32.4	n/a	1.9	4.5
	4	4845.8	99.6	81.1	473.0	n/a	30.5	n/a	n/a	4.4
	5	5098.6	112.8	87.3	500.7	4.2	32.0	n/a	n/a	4.7
	mean	4918.8	109.0	81.5	631.2	4.2	30.5	n/a	1.9	4.6

Table S19 *cont.*

16	1	4575.9	108.4	83.0	967.9	0.4	35.8	n/a	n/a	4.2
	2	4780.8	105.4	80.5	1034.8	0.8	25.1	n/a	n/a	4.3
	3	4633.7	108.0	67.2	981.8	n/a	34.7	0.4	n/a	4.2
	4	5296.0	108.4	62.9	1053.7	3.7	31.1	n/a	0.5	4.2
	5	4984.7	102.8	81.8	1033.0	n/a	35.4	n/a	n/a	4.2
	mean	4854.2	106.6	75.1	1014.2	1.7	32.4	0.4	0.5	4.2
18	1	5046.3	107.6	85.7	988.8	n/a	27.9	n/a	n/a	4.2
	2	4789.2	109.0	74.4	656.7	n/a	34.0	n/a	2.0	4.3
	3	4979.1	112.1	82.0	607.2	6.2	27.7	n/a	1.8	4.3
	4	5391.6	110.2	68.2	887.2	n/a	24.7	n/a	n/a	4.2
	5	5038.5	111.2	73.8	608.7	n/a	28.4	n/a	n/a	4.2
	mean	5048.9	110.0	76.9	749.7	6.2	28.5	n/a	1.9	4.2
20	1	5235.9	111.8	70.5	651.2	n/a	27.0	n/a	n/a	4.5
	2	4437.6	99.4	75.5	573.7	n/a	25.7	n/a	n/a	4.3
	3	4701.4	102.2	73.4	1087.2	n/a	27.7	n/a	n/a	4.3
	4	5126.9	99.7	69.9	1007.8	n/a	27.3	n/a	n/a	4.2
	5	4467.0	102.0	71.6	599.0	n/a	27.8	n/a	n/a	4.2
	mean	4793.8	103.0	72.2	783.8	n/a	27.1	n/a	n/a	4.3
22	1	4955.0	99.3	73.8	834.5	1.7	31.3	n/a	n/a	4.3
	2	4390.4	104.1	74.2	690.6	34.6	24.5	n/a	n/a	4.5
	3	4466.9	110.0	81.9	725.1	4.6	22.8	n/a	n/a	4.2
	4	4459.4	102.3	73.7	996.0	n/a	21.5	n/a	n/a	4.3
	5	4781.9	109.3	89.8	513.4	9.1	36.9	n/a	n/a	4.9
	mean	4610.7	105.0	78.7	751.9	12.5	27.4	n/a	n/a	4.4
24	1	4021.6	96.0	69.5	662.9	n/a	18.6	n/a	n/a	4.3
	2	4517.0	88.5	73.3	831.2	n/a	24.5	n/a	n/a	4.5
	3	3984.7	99.5	71.0	735.2	9.2	22.1	n/a	n/a	4.7
	4	4125.8	91.0	71.5	662.2	n/a	25.8	n/a	n/a	4.5
	5	4124.4	106.6	79.0	1010.2	n/a	19.3	n/a	n/a	4.5
	mean	4154.7	96.3	72.9	780.4	9.2	22.0	n/a	n/a	4.5
26	1	4205.6	102.8	76.0	921.4	n/a	21.2	n/a	n/a	4.3
	2	4253.7	106.3	87.1	1018.0	n/a	23.0	n/a	n/a	4.2
	3	4187.7	93.4	66.9	1082.6	n/a	21.7	n/a	n/a	4.2
	4	4381.9	89.0	76.3	1017.1	n/a	22.2	n/a	n/a	4.2
	5	4386.5	96.0	77.0	938.7	n/a	22.8	n/a	n/a	4.2
	mean	4283.1	97.5	76.6	995.6	n/a	22.2	n/a	n/a	4.2
28	1	4961.0	102.1	88.4	1028.1	50.6	43.8	0.3	10.1	4.9
	2	4733.8	102.0	80.5	788.0	49.7	43.0	n/a	10.3	4.9
	3	4634.6	105.2	69.5	1088.6	48.4	47.4	n/a	11.0	4.9
	4	5054.9	111.1	81.6	746.6	51.0	44.8	n/a	9.1	4.7
	5	4688.3	107.0	87.8	1004.2	59.1	45.1	n/a	8.9	4.9
	mean	4814.5	105.5	81.6	931.1	51.8	44.8	0.3	9.9	4.9

Table S20

Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-41 (0–28 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	4121.2	74.7	24.8	441.8	18.5	97.0	20.6	66.3	3.4
	2	4027.7	57.4	42.1	285.3	28.1	96.3	21.0	66.6	3.1
	3	3919.9	61.4	35.0	396.0	31.0	81.4	20.8	71.0	3.4
	4	4135.2	83.2	38.3	235.3	22.5	94.4	19.7	61.2	3.1
	5	3960.7	59.9	34.3	425.7	28.6	99.1	20.0	65.6	3.2
	mean	4032.9	67.3	34.9	356.8	25.8	93.7	20.4	66.1	3.2
4	1	3853.8	56.6	43.5	691.8	16.8	103.9	24.5	75.5	3.5
	2	3714.8	63.8	37.6	511.8	4.3	78.1	20.6	54.0	3.5
	3	3237.7	53.3	21.4	522.7	n/a	69.2	19.6	57.4	3.2
	4	4024.8	89.6	35.1	410.5	35.3	98.6	21.8	74.1	3.5
	5	4199.4	89.0	40.1	691.7	17.5	101.8	20.7	73.5	3.7
	mean	3806.1	70.5	35.6	565.7	18.5	90.3	21.4	66.9	3.5
6	1	5141.0	92.2	53.3	895.4	35.4	124.0	23.4	79.9	3.8
	2	5292.8	91.4	68.8	791.7	44.9	110.8	21.7	76.6	3.8
	3	5271.8	104.8	70.1	664.7	43.0	127.6	23.2	82.4	3.9
	4	5087.2	95.8	64.5	842.2	39.7	129.2	25.5	91.5	3.9
	5	5019.7	94.4	68.6	648.6	38.5	101.3	21.1	71.2	3.7
	mean	5162.5	95.7	65.1	768.5	40.3	118.6	23.0	80.3	3.8
8	1	5297.4	107.4	66.9	443.9	45.0	74.7	17.6	41.7	3.7
	2	5360.3	107.1	44.6	460.9	35.3	77.1	15.9	39.1	3.7
	3	5608.6	117.8	56.9	473.8	44.0	61.9	14.0	32.7	3.7
	4	5297.5	103.6	69.8	462.7	31.0	76.3	16.7	37.9	3.7
	5	5328.5	113.0	47.2	932.0	42.0	107.8	17.0	48.9	3.8
	mean	5378.5	109.8	57.1	554.7	39.5	79.5	16.2	40.1	3.7
10	1	5356.4	109.1	67.1	472.1	40.3	52.0	13.0	30.3	3.7
	2	5436.8	107.7	72.8	617.3	40.8	51.4	9.9	24.9	3.8
	3	5436.3	113.3	55.4	393.4	37.2	57.6	10.6	27.4	3.7
	4	5478.3	107.5	75.4	411.6	35.6	48.5	10.2	27.9	3.8
	5	5379.1	112.6	73.7	450.0	44.7	62.3	10.5	27.7	3.7
	mean	5417.4	110.0	68.9	468.9	39.0	54.4	10.8	27.7	3.7
12	1	5356.9	108.3	59.4	504.8	43.1	47.5	7.8	22.6	3.8
	2	5421.7	107.7	74.7	573.3	37.6	43.0	9.7	16.1	3.8
	3	5353.0	109.2	67.5	617.7	31.9	45.0	10.8	27.5	3.7
	4	5200.1	93.6	47.6	528.9	33.3	49.5	9.0	25.4	3.7
	5	5342.1	111.8	68.0	614.3	41.8	47.8	9.4	19.1	3.8
	mean	5334.8	106.1	63.4	567.8	37.6	46.6	9.3	22.1	3.8
14	1	5317.2	110.0	65.0	512.7	36.7	48.4	7.3	19.6	3.8
	2	5352.0	110.9	75.9	544.6	37.4	41.3	9.3	20.2	3.9
	3	5347.1	106.4	73.7	450.5	38.2	44.6	8.0	13.7	3.9
	4	5364.5	110.9	51.4	666.4	42.0	47.2	10.2	19.9	4.0
	5	5444.5	108.8	68.0	486.0	37.7	44.3	7.3	11.5	3.8
	mean	5365.1	109.4	66.8	532.0	38.4	45.2	8.4	17.0	3.9

***Table S20** cont.*

16	1	5170.1	108.9	58.2	568.7	41.3	44.3	7.5	14.4	3.8
	2	5405.1	114.6	61.1	600.8	39.6	42.6	10.2	16.9	3.9
	3	5296.0	105.7	62.7	458.1	38.0	37.4	3.9	13.4	3.9
	4	5375.2	110.0	70.5	438.9	40.8	42.7	6.1	13.3	3.9
	5	5041.6	91.8	60.2	409.2	34.9	39.3	5.4	12.5	3.7
	mean	5257.6	106.2	62.5	495.1	38.9	41.3	6.6	14.1	3.8
18	1	5386.5	117.0	63.1	594.0	39.2	45.6	11.7	28.6	3.8
	2	5322.2	106.0	67.2	570.0	36.3	50.3	14.5	33.2	3.8
	3	5339.4	111.6	60.6	901.7	38.9	65.3	15.5	36.8	4.2
	4	5353.5	97.7	76.8	609.3	38.6	45.8	11.2	26.7	3.8
	5	5372.2	108.2	78.1	565.8	41.8	42.1	10.9	25.4	3.7
	mean	5354.8	108.1	69.1	648.1	39.0	49.8	12.8	30.1	3.9
20	1	5341.2	112.0	58.0	561.7	39.7	50.0	11.8	30.0	3.7
	2	5299.1	104.6	57.0	383.8	34.0	40.9	8.4	21.5	3.2
	3	5270.1	107.1	57.9	563.9	24.5	52.3	11.8	30.3	3.7
	4	5068.7	99.0	54.3	574.8	38.4	48.1	11.7	27.8	3.7
	5	5235.1	97.2	60.8	419.3	40.4	40.1	7.4	24.9	3.3
	mean	5242.8	104.0	57.6	500.7	35.4	46.3	10.2	26.9	3.5
22	1	5350.0	106.4	67.6	572.0	39.4	47.9	10.6	19.5	3.8
	2	5349.2	117.6	65.7	626.8	35.6	40.3	10.1	26.7	3.8
	3	5407.3	105.0	66.6	615.2	39.2	42.0	11.5	27.2	3.8
	4	5363.8	108.1	61.2	608.4	33.2	43.7	13.6	31.3	3.9
	5	5341.5	104.7	77.8	555.1	38.8	42.4	10.2	22.2	3.7
	mean	5362.4	108.3	67.8	595.5	37.2	43.3	11.2	25.4	3.8
24	1	5372.9	112.2	69.9	425.2	38.6	38.5	5.5	13.3	4.0
	2	5318.8	99.1	64.1	474.1	39.1	39.4	6.6	17.2	3.7
	3	5400.8	112.7	83.3	485.1	41.4	38.6	5.4	11.9	3.7
	4	5353.0	107.0	77.0	596.0	41.3	40.8	7.9	19.0	3.8
	5	4648.4	90.3	42.2	409.7	n/a	24.0	0.4	n/a	3.3
	mean	5218.8	104.3	67.3	478.0	40.1	36.3	5.1	15.3	3.7
26	1	5314.0	99.2	59.7	521.3	35.2	40.6	9.4	14.7	3.7
	2	5309.0	105.8	68.2	559.2	37.3	36.5	7.5	17.4	3.8
	3	5286.2	100.6	74.2	518.2	23.9	45.8	12.5	26.8	3.8
	4	5275.2	106.9	62.1	465.0	43.9	41.3	7.3	17.9	3.6
	5	4659.4	94.7	56.0	463.5	n/a	25.3	3.7	0.4	3.5
	mean	5168.8	101.4	64.1	505.4	35.1	37.9	8.1	15.4	3.7
28	1	4835.4	107.4	65.1	540.2	22.7	38.8	7.9	n/a	3.6
	2	5111.7	109.7	77.5	789.2	32.4	41.8	8.9	n/a	3.9
	3	5297.4	107.0	67.9	524.0	42.3	39.5	8.6	n/a	3.7
	4	5323.0	105.7	50.2	554.5	37.7	39.7	7.5	n/a	3.7
	5	5305.1	106.8	55.7	597.7	37.6	45.0	8.8	n/a	3.7
	mean	5174.5	107.3	63.3	601.1	34.5	41.0	8.3	n/a	3.7

Table S21
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-42 (0–30 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3868.2	58.6	35.3	1349.5	37.0	160.3	22.2	67.3	4.6
	2	3607.7	59.8	35.2	1295.3	36.1	140.6	19.6	69.2	4.4
	3	3260.5	56.1	38.3	1262.4	28.9	132.1	17.7	63.8	4.1
	4	3280.2	51.7	29.2	1290.8	25.9	132.0	19.0	62.5	4.1
	5	3626.3	63.5	29.0	1293.1	34.6	149.4	20.3	66.2	4.2
	mean	3528.6	57.9	33.4	1298.2	32.5	142.9	19.8	65.8	4.3
4	1	4020.1	84.3	49.0	1287.1	38.5	162.8	22.8	81.7	4.4
	2	4013.2	64.4	44.2	1282.1	41.4	156.3	23.6	83.9	4.7
	3	4420.6	93.2	73.8	1323.7	48.3	163.2	24.0	87.4	4.9
	4	4156.6	93.4	66.5	1280.5	44.6	166.7	23.8	90.2	4.7
	5	3989.5	64.9	63.1	1357.1	46.0	163.3	23.5	95.2	4.5
	mean	4120.0	80.1	59.3	1306.1	43.8	162.5	23.5	87.7	4.7
6	1	4881.4	97.3	66.8	1309.2	42.3	167.7	23.0	87.2	4.9
	2	4708.3	81.8	66.3	1280.1	44.5	156.3	23.8	82.5	4.9
	3	4861.8	90.3	72.2	1268.9	50.6	148.7	23.1	83.5	4.9
	4	5086.4	100.0	85.7	1491.0	58.3	162.9	27.3	93.0	5.0
	5	4878.6	105.5	55.3	1247.0	45.8	146.4	21.6	81.8	4.8
	mean	4883.3	95.0	69.3	1319.2	48.3	156.4	23.7	85.6	4.9
8	1	5317.9	107.9	78.2	1091.2	40.6	111.3	18.3	55.5	4.8
	2	5015.2	99.9	71.4	1124.0	42.4	106.8	16.3	42.9	4.6
	3	5330.5	94.3	64.5	1163.0	47.3	115.6	18.2	58.8	4.8
	4	5293.0	101.0	78.3	1198.2	44.5	122.3	21.3	75.8	4.8
	5	5271.4	93.7	64.2	1168.3	32.1	103.4	17.2	39.1	4.7
	mean	5245.6	99.4	71.3	1149.0	41.4	111.9	18.3	54.4	4.7
10	1	5272.6	94.7	68.4	1069.3	42.4	89.3	14.6	37.5	4.7
	2	5365.4	100.6	71.5	1005.6	45.0	76.9	10.9	32.5	4.8
	3	5370.4	109.0	66.0	1103.2	47.9	82.3	15.0	36.1	4.7
	4	5392.7	109.0	77.3	1019.2	46.0	77.3	11.5	30.8	4.8
	5	5348.5	108.2	83.5	1051.4	46.2	77.5	13.9	32.9	4.7
	mean	5349.9	104.3	73.3	1049.8	45.5	80.7	13.2	34.0	4.7
12	1	5359.4	106.5	79.0	1051.9	44.0	73.0	8.6	23.1	4.8
	2	5387.6	117.5	87.6	1035.2	47.0	65.5	6.2	24.0	4.8
	3	5340.7	113.2	70.7	1162.7	50.9	64.8	6.6	23.2	4.7
	4	3611.6	64.1	63.8	1423.1	33.1	73.0	7.9	31.8	4.0
	5	5308.3	115.2	69.0	1024.8	44.2	71.1	7.6	23.3	4.8
	mean	5001.5	103.3	74.0	1139.6	43.8	69.5	7.4	25.1	4.6
14	1	5308.3	97.2	71.1	824.5	n/a	39.0	0.6	4.5	4.5
	2	4979.5	103.0	59.6	1092.1	n/a	36.1	2.7	4.3	4.3
	3	5280.5	103.6	64.1	914.2	n/a	41.2	n/a	6.7	4.8
	4	5430.1	114.1	79.9	1085.0	47.9	62.4	4.0	19.5	4.9
	5	4730.9	98.1	59.0	1042.2	n/a	37.7	5.0	3.3	4.3
	mean	5145.9	103.2	66.7	991.6	47.9	43.3	3.1	7.7	4.5

Table S21 *cont.*

16	1	4810.7	102.3	76.5	1077.9	n/a	39.8	0.9	4.1	4.3
	2	4644.9	102.2	68.6	1130.7	n/a	38.4	2.1	7.0	4.3
	3	5185.1	106.1	72.1	1179.7	1.5	45.7	n/a	5.6	4.5
	4	5144.0	103.1	73.9	1013.5	n/a	37.7	n/a	2.3	4.6
	5	5115.9	105.6	81.8	1146.6	n/a	40.6	2.0	6.6	4.3
	mean	4980.1	103.9	74.6	1109.7	1.5	40.4	1.7	5.1	4.4
18	1	5349.1	102.5	75.4	1006.1	47.1	67.8	8.1	18.2	4.8
	2	4686.6	102.5	81.2	969.3	n/a	34.0	0.7	1.0	4.2
	3	5036.9	111.2	76.8	1028.0	n/a	37.2	1.0	5.4	4.7
	4	5033.7	103.3	75.3	1109.2	n/a	35.9	3.2	1.3	4.6
	5	4804.5	101.2	74.8	1051.8	n/a	38.0	3.9	4.6	4.3
	mean	4982.1	104.1	76.7	1032.9	47.1	42.6	3.4	6.1	4.5
20	1	4991.6	105.5	70.7	1045.1	n/a	42.2	1.4	4.4	4.7
	2	5222.4	109.7	78.1	1074.2	2.4	41.0	1.7	1.7	4.7
	3	5053.9	106.1	71.0	1043.0	n/a	37.7	1.2	0.2	4.6
	4	4883.1	89.4	65.2	1089.7	1.1	38.2	0.2	0.2	4.6
	5	4807.6	98.8	76.5	1085.0	8.6	32.6	3.4	4.8	4.3
	mean	4991.7	101.9	72.3	1067.4	4.0	38.4	1.6	2.2	4.6
22	1	5475.5	120.4	90.1	1213.9	50.6	67.1	6.5	16.2	5.0
	2	5462.3	114.0	80.0	1199.7	46.6	48.8	4.2	15.8	4.9
	3	5122.8	108.9	63.0	1134.2	n/a	39.6	0.8	2.0	4.7
	4	5531.6	111.3	87.4	1207.2	43.5	50.3	7.0	18.2	4.9
	5	5468.3	117.7	80.7	1205.8	51.3	67.3	6.2	19.4	4.9
	mean	5412.1	114.5	80.2	1192.2	48.0	54.6	4.9	14.3	4.9
24	1	4840.2	104.8	77.6	1223.6	1.1	38.2	n/a	2.9	4.6
	2	5386.9	107.0	88.3	1196.6	51.2	59.8	5.7	15.8	4.9
	3	5022.3	106.2	84.7	1074.1	10.0	36.5	n/a	4.8	4.7
	4	4862.9	108.6	87.6	1234.0	9.1	36.6	1.9	5.3	4.9
	5	5141.2	106.9	70.5	1249.2	14.0	34.9	n/a	1.9	4.6
	mean	5050.7	106.7	81.7	1195.5	17.1	41.2	3.8	6.2	4.8
26	1	4820.8	104.3	74.9	1255.6	5.6	33.1	n/a	4.3	4.6
	2	4264.6	98.2	73.9	1085.3	2.7	32.7	3.9	1.9	4.2
	3	5037.0	104.7	72.2	1193.8	5.1	33.2	n/a	5.9	4.6
	4	4777.4	104.8	76.3	1182.3	3.5	33.9	0.5	2.7	4.7
	5	4544.5	99.0	69.8	1055.5	n/a	33.6	n/a	3.7	4.3
	mean	4688.9	102.2	73.4	1154.5	4.2	33.3	2.2	3.7	4.5
28	1	4099.3	96.4	65.0	1123.4	n/a	35.0	n/a	2.6	4.3
	2	4152.1	98.4	77.0	1259.3	0.8	39.2	n/a	3.6	4.8
	3	4498.3	103.3	78.5	1241.5	14.6	32.7	n/a	1.4	4.6
	4	5217.5	106.4	87.9	1204.4	54.9	50.7	4.3	19.2	5.3
	5	5193.0	110.2	79.9	1317.6	53.1	77.1	2.0	18.6	5.2
	mean	4632.0	102.9	77.7	1229.2	30.8	46.9	3.1	9.1	4.8
30	1	4283.8	95.0	86.2	1239.3	66.1	48.4	3.2	16.2	5.1
	2	4379.0	96.0	89.6	1336.7	53.3	61.7	2.1	16.1	5.1
	3	4606.2	103.6	78.0	1207.1	62.1	60.5	6.1	26.2	5.0
	4	4141.9	95.5	90.7	1156.5	55.9	50.3	1.4	12.8	5.3
	5	4537.9	106.5	87.7	1269.6	57.5	54.6	4.3	24.0	4.9
	mean	4389.8	99.3	86.5	1241.8	59.0	55.1	3.4	19.1	5.1

Table S22
Metals and metalloids contents [mg·kg^{-1}] in topsoil core number K-43 (0–28 cm depth) in the area of the Kamieniec Forest (LK), n/a – no data

Depth [cm]	No.	Ti	V	Cr	Mn	Ni	Zn	As	Pb	Fe_2O_3 [%]
2	1	3290.1	55.7	35.4	993.6	18.8	131.6	19.6	65.9	4.2
	2	3421.2	54.0	51.4	1069.2	24.7	132.3	21.8	65.1	4.2
	3	3791.4	62.9	52.1	1064.4	43.3	142.9	20.4	71.6	4.3
	4	3280.9	61.8	47.3	1055.9	34.8	132.2	18.9	58.4	4.1
	5	3661.0	59.8	44.0	1091.5	34.5	138.7	22.1	74.8	4.3
	mean	3488.9	58.9	46.0	1054.9	31.2	135.5	20.6	67.2	4.2
4	1	3965.3	89.9	66.9	1237.9	50.1	140.8	21.9	71.0	4.2
	2	3371.0	61.0	42.7	1045.7	38.9	132.1	21.4	74.8	4.0
	3	4146.6	66.5	75.8	855.4	38.6	132.2	23.2	80.8	4.5
	4	4001.0	85.7	63.3	1087.9	45.5	142.4	23.5	81.3	4.3
	5	4033.3	94.9	60.8	1107.0	41.8	137.5	22.4	82.0	4.3
	mean	3903.4	79.6	61.9	1066.8	43.0	137.0	22.5	78.0	4.3
6	1	4464.3	92.3	69.9	843.8	47.4	107.2	21.1	74.0	4.2
	2	4168.6	95.3	65.5	856.5	44.3	110.6	21.5	72.8	4.2
	3	4341.3	89.3	70.7	846.4	46.1	120.1	19.5	69.1	4.2
	4	4228.4	97.7	75.8	982.1	43.4	132.7	23.1	82.8	4.3
	5	4145.4	101.9	65.6	1042.3	42.5	122.0	22.2	76.4	4.3
	mean	4269.6	95.3	69.5	914.2	44.7	118.5	21.4	75.0	4.2
8	1	3853.5	97.2	54.8	579.7	46.0	73.8	14.0	30.1	3.9
	2	3907.3	92.8	67.5	885.4	46.7	91.2	16.5	46.4	3.9
	3	3903.7	91.5	75.1	894.5	46.7	73.8	14.6	37.8	3.9
	4	4034.8	93.0	74.6	744.0	48.9	77.7	16.1	37.4	4.0
	5	4522.9	98.2	87.1	844.6	47.2	77.0	14.0	35.2	4.2
	mean	4044.5	94.5	71.8	789.6	47.1	78.7	15.1	37.4	4.0
10	1	3858.1	83.8	80.0	942.3	46.7	122.4	16.2	44.3	4.2
	2	4081.4	90.1	75.0	964.4	43.8	109.9	15.4	42.5	4.1
	3	3923.6	87.7	74.1	901.7	43.3	101.1	14.9	43.0	4.1
	4	3925.6	80.5	49.9	958.8	42.0	118.8	16.8	58.4	4.2
	5	4100.4	89.2	81.6	905.7	47.3	108.0	16.4	43.1	4.2
	mean	3977.8	86.3	72.1	934.6	44.6	112.0	15.9	46.2	4.1
12	1	2340.0	41.9	18.8	648.4	22.9	108.8	11.4	37.2	3.2
	2	2945.3	44.6	35.8	754.7	10.7	107.0	14.7	43.2	3.6
	3	4038.9	66.0	82.1	1206.1	42.3	146.0	18.9	52.3	7.7
	4	3600.6	79.7	44.6	1110.7	48.9	87.9	11.1	33.6	4.0
	5	4181.9	95.2	82.7	996.0	48.9	93.7	11.7	30.5	4.3
	mean	3421.3	65.5	52.8	943.2	34.7	108.7	13.6	39.4	4.6
14	1	5044.2	110.5	86.5	931.8	54.3	45.4	0.9	20.8	4.7
	2	5039.3	105.1	90.6	1149.7	52.6	43.6	4.3	18.0	4.7
	3	4930.8	103.9	87.3	1096.0	51.8	42.3	4.9	16.8	4.7
	4	4907.0	109.9	87.2	1117.6	57.4	39.8	4.7	14.4	4.7
	5	5030.6	104.4	87.9	1036.3	61.7	41.9	6.7	16.1	4.7
	mean	4990.4	106.8	87.9	1066.3	55.6	42.6	4.3	17.2	4.7

***Table S22** cont.*

16	1	4303.6	93.8	89.8	1434.8	57.1	35.6	0.6	11.4	4.8
	2	4859.8	107.3	78.0	1261.4	56.2	40.7	2.6	13.7	4.8
	3	4520.9	99.5	88.9	1366.1	59.5	41.4	0.7	11.1	4.9
	4	4602.7	105.0	87.0	1228.1	59.5	43.6	1.0	10.0	4.8
	5	4174.5	109.6	88.3	1386.8	63.2	42.8	0.5	12.6	4.8
	mean	4492.3	103.1	86.4	1335.4	59.1	40.8	1.1	11.7	4.8
18	1	4687.6	104.8	87.2	1087.8	53.5	37.7	0.7	13.6	5.1
	2	4241.8	94.9	88.4	1039.4	52.7	43.4	n/a	11.4	5.0
	3	4651.9	106.8	89.4	1095.3	56.0	40.1	n/a	14.8	5.0
	4	4178.9	99.0	88.5	976.8	54.8	38.8	n/a	10.9	5.0
	5	3984.4	106.9	81.9	1115.3	51.8	38.4	1.0	13.3	4.9
	mean	4348.9	102.5	87.1	1062.9	53.7	39.7	0.9	12.8	5.0
20	1	4054.6	104.6	89.8	995.9	66.2	43.2	n/a	8.9	5.4
	2	4019.0	99.6	75.4	981.3	57.3	43.4	n/a	7.3	5.3
	3	3968.1	99.9	88.2	786.3	52.2	44.7	n/a	6.3	5.0
	4	4030.9	100.3	89.7	939.5	47.4	39.8	n/a	10.9	5.4
	5	3999.3	101.7	88.4	950.2	50.7	39.7	n/a	8.4	5.4
	mean	4014.4	101.2	86.3	930.6	54.7	42.1	n/a	8.4	5.3
22	1	4206.9	105.8	89.3	1048.4	63.9	44.7	2.3	8.7	5.1
	2	4122.8	110.5	92.6	1451.6	69.0	39.8	0.7	11.2	5.5
	3	3658.2	90.9	73.8	1217.9	52.0	40.0	n/a	9.0	5.0
	4	3986.8	105.1	89.9	1105.4	56.5	40.2	0.4	8.5	5.2
	5	3945.7	106.3	86.1	1021.3	48.3	40.2	n/a	7.6	5.2
	mean	3984.1	103.7	86.4	1168.9	58.0	41.0	1.2	9.0	5.2
24	1	4376.7	107.5	88.6	992.3	53.8	42.0	n/a	8.3	5.1
	2	4543.3	107.5	89.7	1075.3	71.0	37.2	n/a	5.1	5.0
	3	4359.3	106.8	88.4	975.7	61.9	43.9	n/a	9.4	5.0
	4	3787.3	98.4	88.4	697.2	59.6	38.5	n/a	5.0	5.4
	5	4586.3	105.4	88.5	1001.3	51.4	41.3	n/a	5.6	5.1
	mean	4330.6	105.1	88.7	948.4	59.5	40.6	n/a	6.7	5.1
26	1	4003.6	81.5	81.8	865.8	46.6	37.2	n/a	8.0	5.2
	2	3867.5	89.7	70.9	809.3	54.9	40.9	n/a	16.0	5.0
	3	4082.9	94.2	87.8	829.8	64.6	35.5	n/a	5.3	4.8
	4	4304.9	98.3	83.7	943.5	56.5	37.3	n/a	9.8	5.0
	5	4085.1	91.2	78.2	784.0	52.3	34.6	n/a	7.6	4.8
	mean	4068.8	91.0	80.5	846.4	55.0	37.1	n/a	9.3	4.9
28	1	4027.1	93.7	77.1	876.1	61.8	42.3	n/a	11.3	5.2
	2	3959.5	103.3	87.0	811.1	77.6	39.8	n/a	9.8	5.1
	3	4151.0	96.5	90.6	720.0	54.3	40.1	0.7	12.0	5.3
	4	4060.3	95.3	86.9	996.0	46.8	44.4	n/a	10.1	5.0
	5	4111.8	93.0	79.7	898.4	60.3	43.5	0.9	14.9	4.9
	mean	4061.9	96.4	84.3	860.3	60.2	42.0	0.8	11.6	5.1