

Harmonisation of a large-scale historical database with the actual Czech soil classification system

TEREZA ZÁDOROVÁ¹, DANIEL ŽÍŽALA², VÍT PENÍŽEK¹, ALEŠ VANĚK¹

¹Department of Soil Science and Soil Protection, Faculty of Agrobiology, Food and Natural Resources, Czech University of Life Sciences Prague, Prague, Czech Republic

²Research Institute for Soil and Water Conservation, Prague, Czech Republic

Electronic Supplementary Material (ESM)

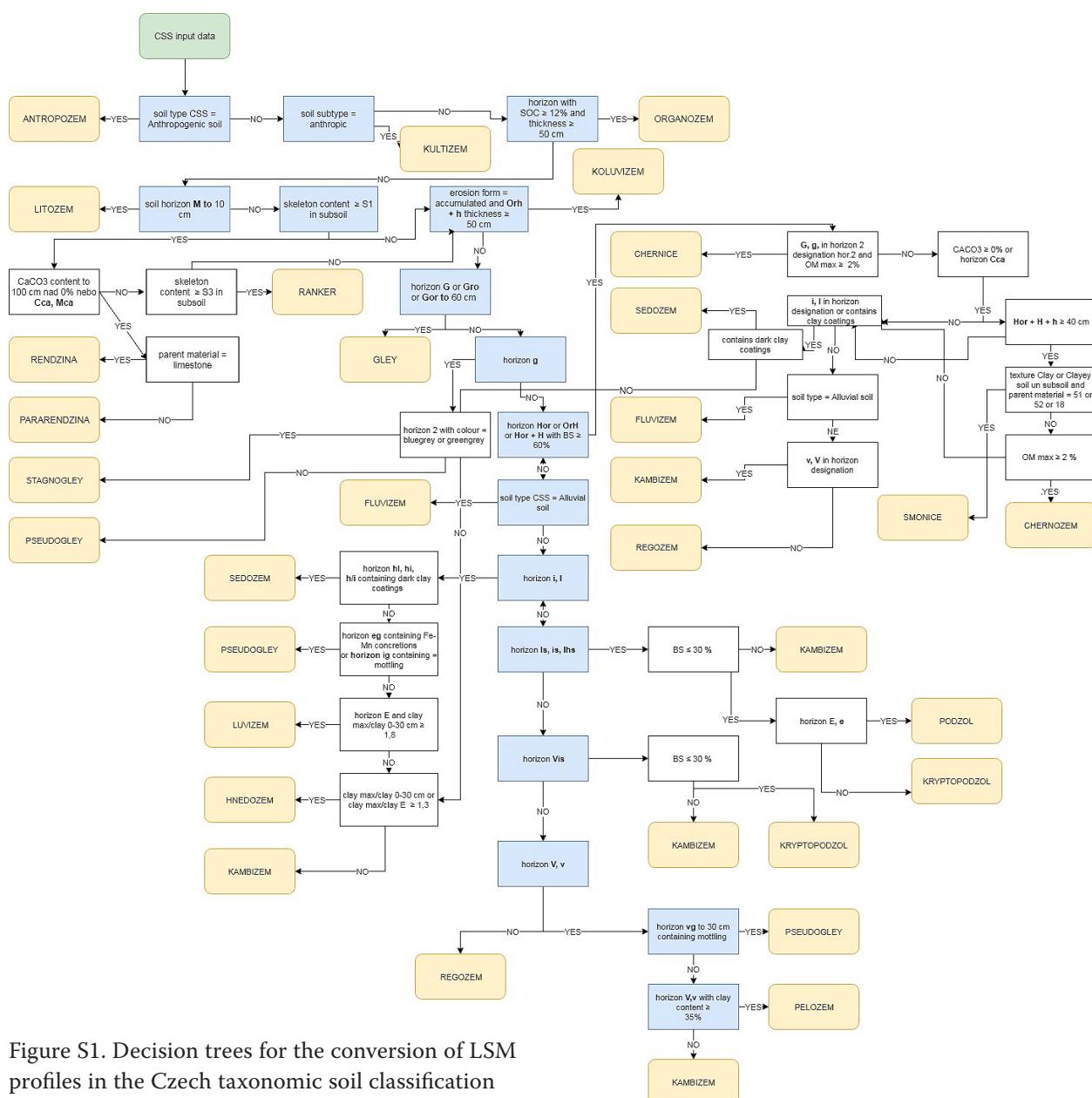


Figure S1. Decision trees for the conversion of LSM profiles in the Czech taxonomic soil classification system (CTSCS)

2 Table S1. GSRs converted in CTSCS nomenclature, number of relevant soil profiles according to their reclassification and conversion accuracy

Genetic soil representative	Soil profiles																	conversion accuracy (%)														
	Chernice calcareous	Chernice gleyic	Chernice modal	Chernozem calcareous	Chernozem chernic	Chernozem luvic	Chernozem modal	Chernozem pelic	Fluvizem calcareous	Fluvizem gleyic	Fluvizem modal	Fluvizem stagnic	Hnedozem luvic	Hnedozem modal	Kambizem decalcified	Kambizem luvic	Kambizem modal	Kolvizem calcareous	Kolvizem modal	Kolvizem pelic	Kultizem trenched	Luvizem modal	Luvizem stagnic	Pararendzina cambic	Pararendzina decalcified	Pararendzina melanic	Pararendzina modal	Regozem arenic	Regozem calcareous	Regozem modal	Regozem psefitic	Regozem stagnic
Antropozem			1																												0	
Chernice gleyic		2																													0	
Chernice modal	1	1	9	4	21																									22.5		
Chernozem calcareous			67			8																								61.5		
Chernozem luvic					7																									7	50	
Chernozem modal			8		1	74	1											1	5	1									1	73.3		
Chernozem calcareous/ Kolvizem modal			1																4											1	83.3	
Chernozem calcareous/ Regozem calcareous			2																											8	100	
Chernozem luvic/ Regozem calcareous																														12	5	70.6
Fluvizem calcareous				1		1																									50	
Fluvizem gleyic					8																										100	
Fluvizem modal					2	186	16	1										1		1										90.2		
Kambizem modal																2			2	106	1	4	1	1						100		
Pararendzina cambic/ Kambizem decalcified															20	4	1		1	1	19	1								90		
Pararendzina modal																			1		1	19	1							82.6		
Regozem arenic															1			46	2		19	6	1							25.3		
Regozem calcareous/ Pararendzina modal								1											1	2	35	3	8	2						82.7		
Regozem modal							1	2									1		25	9	1		9	17	18	2	2	20				
Regozem psefitic		2		2																			1	1	2	15			65.2			

Table S1 to be continued

Genetic soil representative	Soil profiles												conversion accuracy (%)																		
	Chernic calcareous	Chernic gleic	Chernic modal	Chernozem calcareous	Chernozem chernic	Chernozem luvic	Chernozem modal	Chernozem pelic	Fluvizem calcareous	Fluvizem gleic	Fluvizem modal	Fluvizem stagnic	Hnedozem luvic	Hnedozem modal	Kambizem decalcified	Kambizem luvic	Kambizem modal	Koluvizem calcareous	Koluvizem modal	Kultizem trenched	Luvizem modal	Luvizem stagnic	Pararendzina cambic	Pararendzina decalcified	Pararendzina melanic	Pararendzina modal	Regozem arenic	Regozem calcareous	Regozem modal	Regozem pseftic	Regozem stagnic
Regozem stagnic																															
Sedozen modal/ Chernozem luvic																															
Sedozen modal/ Sedozen luvic		9	1											2			1														
Hnedozem luvic/ Luvizem modal			1											1	29	26	1														
Hnedozem luvic/ Regozem calcareous															1	4															
Hnedozem modal			1													4	45	1													
Hnedozem modal/ Regozem calcareous																	6														

Table S2 to be continued

Basic soil representative	Soil profiles													conversion accuracy (%)																		
	Chernice calcareous	Chernice gleicic	Chernice modal	Chernozem calcareous	Chernozem chernic	Chernozem luvic	Chernozem modal	Chernozem pelic	Fluvizem calcareous	Fluvizem gleicic	Fluvizem modal	Fluvizem stagnic	Hnedozem luvic	Hnedozem modal	Kambizem decalcified	Kambizem luvic	Kambizem modal	Kolvizem calcareous	Kolvizem modal	Kolvizem pelic	Kultizem trenched	Luvizem modal	Luvizem stagnic	Pararendzina cambic	Pararendzina decalcified	Pararendzina melanic	Pararendzina modal	Regozem arenic	Regozem calcareous	Regozem modal	Regozem psefitic	Regozem stagnic
Rendzina modal/ Pararendzina modal/ Regozem calcareous									1												1		2	3	54	3	9	2		84		
Sedozem modal/ Chernozem luvic																												2	100			
Sedozem modal/ Sedozem luvic		9	1						2						1													88	87.1			
Hnedozem luvic/ Luvizem modal	1							1	29	26	1					1											1	48.3				
Hnedozem luvic/ Regozem calcareous									1	4																	2	42.9				
Hnedozem modal	1								4	45	1															16	29	46.9				
Hnedozem modal/ Regozem calcareous									6																		11	100				