

Electronic Appendix 4:

Absolute frequency of particular hybrids of *Cirsium* based on herbarium specimens of hybrids in the Czech herbaria (= numerators in Equation (1) for particular hybrid combinations)

	aca										
arv	5	arv									
bra	0	0	bra								
can	55	1	0	can							
eri	0	0	0	0	eri						
het	2	0	0	0	0	het					
ole	141	5	0	331	0	40	ole				
pal	0	1	0	87	0	28	163	pal			
pan	38	0	0	26	0	0	3	1	pan		
riv	1	0	0	17	0	9	200	136	12	riv	
vul	6	0	0	1	3	1	1	2	0	0	

aca = *Cirsium acaule*; arv = *C. arvense*; bra = *C. brachycephalum*; can = *C. canum*; eri = *C. eriophorum*; het = *C. heterophyllum*; ole = *C. oleraceum*; pal = *C. palustre*; pan = *C. pannonicum*; riv = *C. rivulare*; vul = *C. vulgare* (other studied species: *C. erisithales*, and *C. montanum* are not present in the Czech Republic).

Based on 1612 specimens of *Cirsium* hybrids located in the Czech Republic and kept in herbaria of BRNM, BRNU, CB, GM, HOMP, HR, CHOM, LIM, LIT, MJ, MMI, MP, NJM, OL, OLM, OP, OSM, PL, PR, ROZ, SUM, VM, VYM, ZMT (abbreviations follow Thiers, 2009); in total 1316 localities of hybrids included; duplicities in specimens locations excluded.