

Electronic Appendix 1:

Average pollen viability in populations of analyzed Central European species and hybrids of *Cirsium*: codes, locations, number of samples, numbers of pollen grains analyzed, and estimated population pollen viability (individuals averaged). Nomenclature follows Werner (1976; with exception of *C. heterophyllum*).

Table A1.1. Pollen viability and location of analyzed populations of *Cirsium* species

code	species / location	coordinates	altitude (m s.m.)	Number of samples	Number of analyzed pollen grains	Average population pollen viability (%)
	<i>Cirsium acaule</i> (L.) Scop.					
ACA-ALT-06	Czech Republic, Chrast [near Chrudim]: nature reserve Chrašická stráž (formerly "Altán"), coll. P. Bureš & J. Bureš 25/Jul/2006.	49°54'15.0"N, 15°57'4.1"E	278	4	1513	97,99
ACA-BKŮN-07	Czech Republic, Bílý Kůň: S slopes E of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°52'47.9"N, 16°4'56.8"E	390	7	6013	96,51
ACA-LIB-06	Czech Republic, Libice nad Doubravou: bushy slopes NNW of the village, coll. P. Bureš & J. Bureš 25./Jul/2006.	49°45'4.7"N, 15°41'58.0"E	441	2	970	99,01
ACA-STR-06	Czech Republic, Střemošice: slopes south of village, coll. P. Bureš & J. Bureš 25/Jul/2006.	49°53'11.7"N, 16°4'8.8"E	350	3	1676	94,72
ACA-ŠIR-09	Czech Republic, Široký Důl: slopes N of the village, coll. P. Bureš & J. Bureš 5/Aug/2009	49°44'52.7"N, 16°13'13.2"E	525	5	4347	95,40
	<i>Cirsium arvense</i> (L.) Scop.					
ARV-BOT-09	Czech Republic, Brno-Řečkovice: in the area of former army caserne, coll. P. Bureš & M. Oberreiter 26/Jun/2009	49°15'7.8"N, 16°34'10.5"E	312	2	917	95,66
ARV-HAJ-06	Czech Republic, Háj ve Slezsku: along the road to Dolní Benešov N of grade crossing, coll. J. Konečný 24/Aug/2006.	49°54'7.8"N, 18°5'29.0"E	231	1	614	98,21
ARV-KAJ-06	Czech Republic, Kajlovec: along the road to Lesní Albrechtice, coll. J. Konečný 24/Aug/2006.	49°53'36.0"N, 18°05'11.6"E	258	2	1088	98,92
ARV-LEL-09	Czech Republic, Lelekovice: along the road on the W margin of village, coll. P. Bureš 26/Jun/2009	49°17'11.9"N, 16°34'6.7"E	304	3	474	93,36
ARV-LOU-09	Czech Republic, Louka: meadow along the road to the village Dřeveš, coll. P. Bureš & J. Bureš 4/Jul/2009.	49°50'43.1"N, 15°55'26.6"E	394	5	3364	98,31
ARV-ŽIL-06	Czech Republic, Brno-Řečkovice: N of the bus-stop Žilkova, coll. J. Konečný 26/Jul/2006.	49°15'23.0"N, 16°33'46.1"E	305	2	1422	98,49

	<i>Cirsium brachycephalum</i> Juratzka					
BRA-SCHO-06	Austria, Tadten: saline meadow on the E shore of the Schochstolacke Lake, coll. J. Konečný 25/Jul/2006.	47°46'26.0"N, 16°53'18.0"E	116	2	992	98,91
BRA-ŠUR-08	Slovakia, Čierna Voda: wet saline meadow in nature reserve Svättojurský Šúr, coll. P. Bureš 12/Jul/2008.	48°13'40.6"N, 17°14'8.1"E	129	8	9252	97,35
BRA-TRK-06	Czech Republic, Rakvice: along the brook Trkmanka near the highway Brno-Bratislava, coll. J. Konečný 25/Jul/2006.	48°51'25.0"N, 16°50'22.0"E	159	5	3476	99,10
	<i>Cirsium canum</i> (L.) All.					
CAN-ALT-06	Czech Republic, Chrast: wet meadow along the brook above the pond of Chrašický rybník. coll. P. Bureš & J. Bureš 24/Jul/2006.	49°54'7.4"N, 15°57'3.3"E	267	5	3203	99,36
CAN-LOP-08	Czech Republic, Březová: side ditch at the road to the village of Lopeník near the bus-stop, coll. P. Bureš 29/Jun/2008.	48°56'04.5"N, 17°44'39.7"E	440	1	1072	93,60
CAN-LOU-09	Czech Republic, Louka: meadow along the road to the village Dřeveš, coll. P. Bureš & J. Bureš 4/Jul/2009.	49°50'43.1"N, 15°55'26.6"E	394	2	1730	81,66
CAN-MAR-06	Czech Republic, Brno-Líšeň: wet meadow along the ponds in valley of Mariánské údolí, coll. J. Konečný 18/Jul/2006.	49°12'55"N, 16°43'6.4"E	271	3	2076	98,31
CAN-STR-06	Czech Republic, Střemošice: wet meadow 0.7 km SSW of the village, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°53'11.7"N, 16°4'12.3"E	348	5	2802	99,30
CAN-ZAH-08	Czech Republic, Záhlinice: wet meadow along the Kurovický potok brook SE of the church in the village, coll. P. Bureš 13/Jul/2008.	49°17'14.7"N, 17°29'15.6"E	186	6	7526	86,21
	<i>Cirsium eriophorum</i> (L.) Scop.					
ERIO-LOU-06	Czech Republic, Louka: meadow along the road to the village of Velká nad Veličkou, coll. J. Konečný 1/Sep/2006.	48°54'23"N, 17°30'13"E	264	5	1441	97,95
ERIO-OSTR-06	Czech Republic, Ostrov u Macochy: western margin of the village, coll. J. Konečný 24/Aug/2006.	49°22'41.8"N, 16°45'9.36"E	489	5	2474	97,71
ERIO-STR-09	Czech Republic, Strání: meadow at the road to Březová N of village, coll. P. Bureš 5/Aug/2009	48°54'53.6"N, 17°42'28.5"E	463	7	7287	96,53
ERIO-VIL-06	Czech Republic, Vilémovice: slopes along the road to the village of Ostrov u Macochy, coll. J. Konečný 24/Aug/2006.	49°22'04"N, 16°44'33"E	461	5	2081	97,88
	<i>Cirsium erisithales</i> (Jacq.) Scop.					
ERIS-ADM-09	Austria, Admont: along the road to Bärndorf S of the town, coll. P. Bureš 12/Jul/2009	47°33'02"N, 14°28'06"E	887	5	6564	94,03

ERIS-CHAT-08	Austria, Schneebergdörf: pasture along the road SW of the village, coll. P. Bureš & J. Bureš 20/Sep/2003; cultivated in the garden at Vortová in the Czech Republic, samples for analysis collected 25/Jun/2008.	47°46'03.8"N, 15°51'18.4"E	872	7	18205	91,60
ERIS-JOH-09	Austria, Johnsbach: along the road NW of the village, coll. P. Bureš 12/Jul/2009	47°32'47"N, 14°35'03"E	739	5	8037	95,38
	<i>Cirsium heterophyllum</i> (L.) Hill [= <i>C. helenioides</i> sensu Flora Europaea]					
HET-HAM-09	Czech Republic, Studnice: meadow near the small S of the village, coll. P. Bureš & J. Bureš 30/Jun/2009	49°43'44.3"N, 15°54'25.8"E	614	6	6278	97,23
HET-HUŤ-06a	Czech Republic, Mariánská Huť: wet meadow on the northern margin of village, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°40'54.4"N, 15°57'41.2"E	680	5	1998	96,21
HET-HUŤ-06b	Czech Republic, Mariánská Huť: along the forest road N of the village, coll. P. Bureš & J. Bureš 24/Jun/2006	49°41'25.0"N, 15°57'35.7"E	690	4	2262	97,03
HET-KLIN-06	Czech Republic, Špindlerův Mlýn: Klínové boudy on the ridge of Krkonoše Mts., coll. J. Konečný 12/Aug/2006.	50°42'12"N, 15°37'33"E	1164	4	1879	97,79
HET-KOC-08	Czech Republic, Herálec-Kocanda wet meadow W of the village, coll. P. Bureš & J. Bureš 25/Jun/2008.	49°40'48.5"N, 15°58'53.9"E	650	5	10103	91,73
HET-KRL-08	Czech Republic, Krásný Les: wet meadow above the road 0.7 km SSE of the village, coll. P. Bureš 1/Jul/2008.	50°45'31.6"N, 13°56'13.1"E	660	6	6339	91,07
HET-PODBR-09	Czech Republic, Sklené: nature reserve "Pod Brožovou skalou" N of the village, coll. P. Bureš 4/Jul/2009	49°37'5.0"N, 16°0'39.6"E	731	5	5547	92,65
HET-SKE-09	Czech Republic, Herálec: along the road to Vortová N of the village, coll. P. Bureš 30/Jun/2009	49°41'42.1"N, 15°58'3.8"E	676	5	5019	81,09
	<i>Cirsium montanum</i> (Waldst. et Kit. ex Willd.) Sprengel					
MON-CHAT-08	Italy, Mezzana: along the road near the camp of Marileva 1400, coll. P. Bureš /Jul/2004; cultivated in the garden at Vortová in the Czech Republic, samples for analysis collected 25/Jun/2008.	46°18'00.2"N, 10°48'49.4"E	1457	5	8322	85,07
	<i>Cirsium oleraceum</i> (L.) Scop.					
OLE-HAJ-06	Czech Republic, Háj ve Slezsku: E shore of the pond of Valcha, coll. J. Konečný 18/Jul/2006.	49°53'34"N, 18°6'0"E	267	1	641	97,34
OLE-CHRA-09	Czech Republic, Chrast: wet meadow along the brook above the pond of Chrašický rybník. coll. P. Bureš & J. Bureš 4/Jul/2009.	49°54'7.4"N, 15°57'3.3"E	267	5	6902	87,66
OLE-KAJ-06	Czech Republic, Kajlovec: along the road to Lesní Albrechtice, coll. J. Konečný 18/Jul/2006.	49°49'40"N, 17°53'10.4"E	387	3	1369	97,50

OLE-LOU-09	Czech Republic, Louka: meadow along the road to the village Dřeveš, coll. P. Bureš & J. Bureš 4/Jul/2009.	49°50'43.1"N, 15°55'26.6"E	389	5	5970	92,98
OLE-MAR-06	Czech Republic, Brno-Líšeň: wet meadow along the ponds in the valley of Mariánské údolí, coll. J. Konečný 20/Jul/2006	49°12'57"N, 16°43'8"E	271	2	1985	99,08
OLE-USL-09	Czech Republic, Svratka along the road to Herálec, coll. P. Bureš & J. Bureš 30/Jun/2009	49°42'23.8"N, 15°59'59.1"E	649	6	8278	92,37
OLE-ZAH-08	Czech Republic, Záhlinice: wet meadow along the Kurovický potok brook SE of the church in the village, coll. P. Bureš 13/Jul/2008.	49°17'14.7"N, 17°29'15.6"E	188	4	6540	95,96
	<i>Cirsium palustre</i> (L.) Scop.					
PAL-DBEN-06	Czech Republic, Dolní Benešov: wet meadow in E margin of nature reserve Zábřežské louky, coll. J. Konečný 18/Jul/2006.	49°55'02"N, 18°04'40"E	223	4	1416	96,97
PAL-HAM-09	Czech Republic, Studnice: meadow near the small S of the village, coll. P. Bureš & J. Bureš 30/Jun/2009	49°43'44.3"N, 15°54'25.8"E	614	6	4481	84,72
PAL-HUŤ-06	Czech Republic, Mariánská Huť: wet meadow on the N margin of the village, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°40'53"N, 15°57'38"E	678	3	2300	94,99
PAL-LHO-09	Czech Republic, Lhoty: meadow at the margin of forest S of the village, coll. J. Bureš 30/Jun/2009	49°42'33.9"N, 15°56'48.9"E	682	3	1883	62,85
PAL-NAV-06	Czech Republic, Vortová: wet meadow near the pond of Návesník W of the village, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°42'39"N, 15°56'27"E	639	5	2660	97,26
PAL-PODBR-09	Czech Republic, Sklené: nature reserve "Pod Brožovou skalou" N of the village, coll. P. Bureš 4/Jul/2009	49°37'5.0"N, 16°0'39.6"E	731	16	2997	75,33
PAL-SKE-09	Czech Republic, Herálec: along the road to Vortová N of the village, coll. P. Bureš 30/Jun/2009	49°41'42.1"N, 15°58'3.8"E	676	6	5658	87,36
	<i>Cirsium pannonicum</i> (L. fil.) Link					
PAN-HNĚM-06	Czech Republic, Horní Němčí: along the wall of cemetery, coll. J. Konečný 22/Jun/2006.	48°55'55"N, 17°37'25"E	328	4	3318	88,04
PAN-JAV-06	Czech Republic, Javorník: slope along the road to the village of Suchov, coll. J. Konečný 22/Jun/2006.	48°52'25"N, 17°33'29"E	344	4	2504	92,77
PAN-VEL-06	Czech Republic, Velká nad Veličkou: slope above the railway station, coll. J. Konečný 22/Jun/2006.	48°52'29"N, 17°30'34"E	356	3	2481	89,10
PAN-VEL-08	Czech Republic, Velká nad Veličkou: spring meadow in nature reserve Machová, coll. P. Bureš 27/Jun/2008.	48°49'59.6"N, 17°32'24.2"E	446	7	4853	84,66
	<i>Cirsium rivulare</i> (Jacq.) All.					

RIV-ČACH-09	Czech Republic, Čachnov: wet pasture meadow below the road, 0.7 S of the railway station, coll. P. Bureš & J. Bureš 30/Jun/2009.	49°44'45.0"N, 16°3'40.5"E	638	7	5191	70,01
RIV-HAJ-06	Czech Republic, Háj ve Slezsku: along the road to the village of Hrabyně, coll. J. Konečný 20/Jun/2006.	49°53'14"N, 18°04'56"E	277	3	1642	98,80
RIV-HUŤ-09	Czech Republic, Mariánská Huť: wet meadow on the northern margin of village, coll. P. Bureš 30/Jun/2009.	49°40'54.4"N, 15°57'41.2"E	680	10	4578	86,42
RIV-KAJ-06	Czech Republic, Kajlovec: along the road to the village of Lesní Albrechtice, coll. J. Konečný 22/Jun/2006.	49°49'43"N, 17°53'12"E	382	3	2466	97,48
RIV-MAR-06	Czech Republic, Brno-Líšeň: wet meadow along ponds in the valley of Mariánské údolí, coll. J. Konečný 9/Jun/2005.	49°12'55"N, 16°43'6"E	273	2	1083	96,11
RIV-PODBR-09	Czech Republic, Sklené: nature reserve "Pod Brožovou skalou" N of the village, coll. P. Bureš 4/Jul/2009	49°37'5.0"N, 16°0'39.6"E	731	2	1472	96,98
RIV-RAT-09	Czech Republic, Hlinsko: wet meadow near ponds Ratajské rybníky N of the town, coll. P. Bureš & J. Bureš 30/Jun/2009.	49°46'10.5"N, 15°56'4.6"E	589	5	4269	86,36
	<i>Cirsium vulgare</i> (Savi) Ten.					
VUL-HAJ-06	Czech Republic, Háj ve Slezsku: along the road to Dolní Benešov N of grade crossing, coll. J. Konečný 23/Aug/2006.	49°54'12"N, 18°05'23"E	224	5	954	97,93
VUL-POL-09	Czech Republic, Polička: in the parking place near the meat packer NW of the town, coll. P. Bureš. & J. Bureš 5/Aug/2009	49°43'33.7"N, 16°13'55.9"E	579	5	2932	99,58
VUL-POP-09	Czech Republic, Popůvky, part of the village called "Pod Šípem", coll. P. Bureš 4/Aug/2009	49°11'00"N, 16°29'23.4"E	293	5	3770	94,98
VUL-VIL-06	Czech Republic, Vilémovice: near the crossroad W of the village, coll. J. Konečný 24/Aug/2006.	49°21'42"N, 16°44'44"E	502	5	1920	99,46
VUL-ŽIL-06	Czech Republic, Brno-Řečkovice: N of the bus-stop Žilkova, coll. J. Konečný 24/Aug/2006.	49°15'23"N, 16°33'45"E	310	3	1689	99,58

Table A1.2. Pollen viability and location of populations of *Cirsium* hybrids

code	taxon / location	coordinates	altitude	Number of samples	Number of analyzed pollen grains	Average population pollen viability (%)
	<i>Cirsium acaule</i> x <i>C. canum</i>					
ACAxCAN-BKŮŇ-07	Czech Republic, Bílý Kůň: S slopes E of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°52'47.9"N, 16°04'56.8"E	392	5	9931	66,78
ACAxCAN-LIPOV-08	Czech Republic, Lipovka: slopes and meadows along the road at the SW margin of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°10'25.8"N, 16°15'06.1"E	308	2	2259	67,23
	<i>Cirsium acaule</i> x <i>C. oleraceum</i>					
ACAxOLE-BĚST-08	Czech Republic, Běstvina: slopes on the E margin of the village, coll. P. Bureš & J. Bureš 27/Jul/2008.	49°50'17.8"N, 15°35'50.3"E	360	3	3221	88,29
ACAxOLE-BĚST2-08	Czech Republic, Běstvina: slopes E (above) of the road to Třemošnice N of the village, coll. P. Bureš & J. Bureš 27/Jul/2008.	49°50'34.1"N, 15°35'41.6"E	353	4	5409	66,02
ACAxOLE-BKŮŇ-07	Czech Republic, Bílý Kůň: S slopes E of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°52'47.9"N, 16°04'56.8"E	392	6	13587	93,29
ACAxOLE-HRUŠ-08	Czech Republic, Hrušová: meadow above the road N of the village, S of the forest Dráby, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°55'07.8"N, 16°12'08.6"E	280	4	4688	80,45
ACAxOLE-CHOT-08	Czech Republic, Chotěnov: slopes on the SE margin of the village, coll. P. Bureš & J. Bureš 27/Jul/2008.	49°49'21.2"N, 16°11'17.0"E	497	5	3647	83,92
ACAxOLE-LIB-06	Czech Republic, Libice nad Doubravou: SW slopes N of the village, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°45'06.0"N, 15°41'57.0"E	451	2	3275	83,16
ACAxOLE-LIPOV-08	Czech Republic, Lipovka: slopes and meadows along the road at the SW margin of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°10'23.2"N, 16°15'09.9"E	310	5	6827	90,02
ACAxOLE-MRAV-07	Czech Republic, Mravín: SW slopes NW of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°56'34.4"N, 16°03'04.1"E	281	3	6984	95,56
ACAxOLE-PEKLO-08	Czech Republic, Peklo [near Vamberk]: slopes in the valley E of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°08'09.7"N, 16°19'14.4"E	386	3	4132	67,55
ACAxOLE-RAD-06	Czech Republic, Radostín: SW slopes of the hill of Radostínský kopec S of the village, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°38'41.0"N, 15°52'13.0"E	637	2	2776	67,88
ACAxOLE-STR-06	Czech Republic, Střemošice: slopes S of the village, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°53'15.0"N, 16°04'13.0"E	359	2	1524	82,42

	<i>Cirsium acaule x C. pannonicum</i>					
ACAxPAN-BŘE-08	Czech Republic, Březová: nature reserve NW of the village, coll. P. Bureš 3/Jul/2008.	48°55'41.7"N, 17°43'51.8"E	490	2	1694	80,23
ACAxPAN-POKR-08	Czech Republic, Litoměřice-Pokratice: calcareous slopes in the nature reserve Bílé stráně, coll. P. Bureš 1/Jul/2008.	50°33'24.8"N, 14°07'57.6"E	314	6	7572	75,43
	<i>Cirsium canum x C. oleraceum</i>					
CANxOLE-ČANK-08	Czech Republic, Čankovice: along the road to the village of Moravany 1 km N of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	49°58'05.4"N, 15°56'29.8"E	248	3	2586	41,94
CANxOLE-HORK-07	Czech Republic, Horka: wet meadow above the railway S of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°52'43.8"N, 15°54'51.6"E	341	2	5823	52,05
CANxOLE-JAV-08	Czech Republic, Javorník near Libecina: along the road E of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°53'40.9"N, 16°10'40.8"E	355	2	1452	41,28
CANxOLE-LIPOV-08	Czech Republic, Lipovka: slopes and meadows along the road at SW margin of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°10'25.7"N, 16°15'05.7"E	304	5	4116	40,00
CANxOLE-LOP-08	Czech Republic, Březová: side ditch at the road to the village of Lopeník near the bus-stop, coll. P. Bureš 29/Jun/2008.	48°56'04.5"N, 17°44'39.7"E	440	4	4109	49,91
CANxOLE-LOU-06	Czech Republic, Louka: side ditch along the road to the village of Dřeveš, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°50'41.0"N, 15°55'27.0"E	389	5	3221	60,03
CANxOLE-MCH-08	Czech Republic, Malé Chvojno: meadow along the railway 0.6 km NNE from the railway station, coll. P. Bureš 1/Jul/2008.	50°44'36.4"N, 14°01'31.6"E	400	3	2518	52,58
CANxOLE-MRAV-07	Czech Republic, Mravín: wet meadow in valley NW of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°56'40.4"N, 16°02'57.5"E	288	10	20045	50,47
CANxOLE-OPAT-08	Czech Republic, Opatov: meadows along the brook above the pond Černý rybník W of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°48'49.4"N, 16°28'26.9"E	451	2	1990	64,47
CANxOLE-PŘED-08	Czech Republic, Předhradí along the road NW of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°50'03.5"N, 16°01'47.8"E	440	4	5905	67,38
CANxOLE-SKALK-08	Czech Republic, Podbřeží: along the road to Dobruška 0.5 km N of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°15'44.2"N, 16°12'03.6"E	326	4	3496	52,72
CANxOLE-SKUHR-08	Czech Republic, Skuhrov nad Bělou: along the road to Kvasiny at the S margin of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°13'15.7"N, 16°16'57.1"E	374	5	4573	46,50
CANxOLE-SLEM-08	Czech Republic, Libel: along the road to Domašín NE of the village, coll. P. Bureš & J. Bureš 26/Jul/2008.	50°09'35.9"N, 16°12'44.7"E	343	2	2039	53,89

CANxOLE-SPAČ-08	Czech Republic, Spačice: along the road to Běstvina 0.5 km N of the village, coll. P. Bureš & J. Bureš 27/Jul/2008.	49°49'21.4"N, 15°35'49.8"E	355	3	6033	47,80
CANxOLE-STR-06	Czech Republic, Střemošice: wet meadow 0.7 km SSW of the village, coll. P. Bureš & J. Bureš 24/Jul/2006.	49°53'10.7"N, 16°04'12.7"E	346	5	3608	56,27
CANxOLE-STR-08	Czech Republic, Střemošice, wet meadow above the road W of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°53'37.9"N, 16°03'49.7"E	385	6	7042	51,88
CANxOLE-TVA-06	Czech Republic, Tvarožná Lhota: along the road in the village, coll. J. Konečný 1/Sep/2006.	48°51'44.0"N, 17°23'23.0"E	295	3	2241	53,42
CANxOLE-VIN-07	Czech Republic, Vinary: side ditch along the road S of the village, coll. P. Bureš & J. Bureš Jul/2007.	50°17'00.9"N, 15°26'10.4"E	266	2	5676	87,35
CANxOLE-VIZLOU-08	Czech Republic, Lhotsko near Vizovice: wet meadow along the road in the SW margin of the village, coll. P. Bureš 13/Jul/2008.	49°12'44.9"N, 17°52'33.6"E	340	6	5348	43,80
CANxOLE-VOL-07	Czech Republic, Voletice: wet E shores of Voletický rybník pond S of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°54'17.6"N, 16°02'12.9"E	290	2	2404	43,49
CANxOLE-ZAH-08	Czech Republic, Záhlinice: wet meadow along the Kurovický potok brook SE of the church in the village, coll. P. Bureš 13/Jul/2008.	49°17'14.7"N, 17°29'15.6"E	188	6	7608	53,38
	<i>Cirsium canum</i> x <i>C. palustre</i>					
CANxPAL-CHAT-09	Czech Republic, Vortová: spontaneous hybrid originated from the plants cultivated in the garden at the settlement Lhoty, coll. P. Bureš & J. Bureš 5/Aug/2009	49°42'41.9"N, 15°56'46.2"E	692	1	496	64,11
CANxPAL-JAC-09	Czech Republic, Moravské Budějovice: wet meadow between the ponds W of the town, coll. P. Bureš 5/Aug/2009	49°03'15.0"N, 15°46'24.3"E	455	4	1514	63,57
CANxPAL-VAR-08	Czech Republic, Telnice-Liboňov: meadow in the forest on the slope below the railway S of the village, coll. P. Bureš 1/Jul/2008.	50°43'21.2"N, 13°57'34.4"E	347	1	1897	63,07
	<i>Cirsium canum</i> x <i>C. rivulare</i>					
CANxRIV-OPAT-08	Czech Republic, Opatov: meadows along the brook above the pond Černý rybník W of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°48'49.4"N, 16°28'26.9"E	451	4	2690	42,47
	<i>Cirsium carniolicum</i> x <i>C. erisithales</i>					
CARxERIS-ENN-09	Austria, Johnsbach: along the path from Johnsbach up to Hesshütte in Gesäuse between Untere Koderalm and Stadlalm, coll. P. Bureš 12/Jul/2009	47°33'00.0"N, 14°38'38.0"E	1556	2	1123	78,25
	<i>Cirsium erisithales</i> x <i>C. heterophyllum</i>					

ERISxHET-HOH-09	Austria, Hohetauern: wet margin of road near mountain hut Bergbau 2 km NW of the village, coll. P. Bureš 12/Jul/2009	47°26'37.3"N, 14°27'55.9"E	1198	3	7617	94,66
	<i>Cirsium erisithales</i> x <i>C. oleraceum</i>					
ERISxOLE-ADM-09	Austria, Admont: along the road to Bärndorf S of the town, coll. P. Bureš 12/Jul/2009	47°33'02.0"N, 14°28'06.0"E	887	5	8681	85,14
ERISxOLE-HOH-09	Austria, Hohetauern: wet margin of road near mountain hut Bergbau 2 km NW of the village, coll. P. Bureš 12/Jul/2009	47°26'37.3"N, 14°27'55.9"E	1198	4	6997	62,27
ERISxOLE-CHAT-08	Austria, Schneebergdörf: pasture along the road SW of the village, coll. P. Bureš & J. Bureš 20/Sep/2003; cultivated in the garden at Vortová in the Czech Republic, samples for analysis collected 25/Jun/2008.	47°46'03.8"N, 15°51'18.4"E	872	2	7204	72,08
ERISxOLE-JOH-09	Austria, Johnsbach: along the road NW of the village, coll. P. Bureš 12/Jul/2009	47°32'47.0"N, 14°35'03.0"E	739	5	7779	66,01
ERISxOLE-MOD-09	Austria, Gaishorn: along the road to Mödlinger Hütte N of the village, coll. P. Bureš 11/Jul/2009	47°31'35.0"N, 14°33'16.0"E	1496	4	8262	77,71
	<i>Cirsium erisithales</i> x <i>C. palustre</i>					
ERISxPAL-ADM-09	Austria, Admont: along the road to Bärndorf S of the town, coll. P. Bureš 12/Jul/2009	47°33'02.0"N, 14°28'06.0"E	887	1	907	54,88
ERISxPAL-MOD-09	Austria, Gaishorn: along the road to Mödlinger Hütte N of the village, coll. P. Bureš 11/Jul/2009	47°31'35.0"N, 14°33'16.0"E	1496	1	805	61,62
	<i>Cirsium heterophyllum</i> x <i>C. oleraceum</i>					
HETxOLE-HUŤ-06	Czech Republic, Mariánská Hut': along the forest road N of the village, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°41'25.0"N, 15°57'35.7"E	692	1	1365	47,25
HETxOLE-KOV-08	Czech Republic, Kovářská: along the forest road 1.5 km W of the village, coll. P. Bureš 1/Jul/2008.	50°26'07.1"N, 13°01'28.5"E	857	7	9828	78,98
HETxOLE-KUBH-08	Czech Republic, Kubova Hut': meadows along the Kubohuťský brook below the railway station E of the village, coll. P. Bureš 16/Jul/2008.	48°58'31.3"N, 13°46'16.0"E	914	3	2433	44,51
HETxOLE-PODBR-09	Czech Republic, Sklené: nature reserve "Pod Brožovou skalou" N of the village, coll. P. Bureš 4/Jul/2009	49°37'04.8"N, 16°00'17.1"E	720	1	286	28,05
HETxOLE-POHNŠ-08	Czech Republic, Pohoří na Šumavě: meadow in the northern margin of the village, coll. P. Bureš 15/Jul/2008.	48°36'19.0"N, 14°42'08.3"E	933	1	1846	97,06
HETxOLE-POHOŘ-08	Czech Republic, Pohoří na Šumavě: below the road W of the pond of Pohořský rybník, coll. P. Bureš 15/Jul/2008.	48°37'05.0"N, 14°40'18.3"E	899	6	5184	72,58

HETxOLE-STRÁŽNÝ-08	Czech Republic, Strážný: spring meadow of Kořenský brook E of the gamekeeper's house Orlovka, N of the village, coll. P. Bureš 16/Jul/2008.	48°55'42.2"N, 13°42'41.1"E	914	3	4280	81,95
	<i>Cirsium heterophyllum</i> x <i>C. palustre</i>					
HETxPAL-POHOŘ-08	Czech Republic, Pohoří na Šumavě: below the road W of the pond of Pohořský rybník, coll. P. Bureš 15/Jul/2008.	48°37'00.5"N, 14°40'24.1"E	895	6	5897	49,63
HETxPAL-ZLAM-08	Czech Republic, Vortová: wet meadow near the pond of Zlámanec, coll. P. Bureš & J. Bureš 25/Jun/2008.	49°42'17.5"N, 15°55'53.6"E	623	1	1394	21,79
	<i>Cirsium heterophyllum</i> x <i>C. rivulare</i>					
HETxRIV-HUŤR-06	Czech Republic, Mariánská Huť: along the forest road N of the village, coll. P. Bureš & J. Bureš 24/Jun/2006	49°41'25.0"N, 15°57'35.7"E	690	2	808	91,40
HETxRIV-SKE-07	Czech Republic, Herálec: along the road to Vortová N of the village, coll. P. Bureš 30/Jun/2009	49°41'42.1"N, 15°58'3.8"E	676	6	2423	41,34
	<i>Cirsium oleraceum</i> x <i>C. palustre</i>					
OLExPAL-ČACH-06	Czech Republic, Čachnov: wet pasture meadow below the road, 0.7 S of the railway station, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°44'45.6"N, 16°03'37.0"E	639	2	1590	71,93
OLExPAL-ČÍHO-08	Czech Republic, Číhošť: meadows in the valley W of the church, coll. P. Bureš & J. Bureš 27/Jul/2008.	49°44'19.1"N, 15°19'44.5"E	488	3	2047	66,66
OLExPAL-DLIŠ-08	Czech Republic, Líšná: meadow above the road in the village, coll. P. Bureš & J. Bureš 2/Jul/2008.	49°38'06.4"N, 16°09'00.7"E	602	1	957	50,21
OLExPAL-HER-08	Czech Republic, Herálec: meadow above the pond in the E margin of the village, coll. P. Bureš & J. Bureš 2/Jul/2008.	49°41'03.9"N, 15°59'59.4"E	647	1	1436	42,28
OLExPAL-JANH-08	Czech Republic, Pohoří na Šumavě: along the road in the former settlement Janovy Hutě, coll. P. Bureš 15/Jul/2008.	48°37'02.9"N, 14°42'24.3"E	863	2	6372	29,72
OLExPAL-JPA-08	Czech Republic, Jimramovské Paseky: meadow above the road in the village, coll. P. Bureš & J. Bureš 2/Jul/2008.	49°38'39.8"N, 16°09'40.8"E	582	1	1429	46,20
OLExPAL-RVA-07	Czech Republic, Rváčov: wet meadow at the road E of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°46'04.0"N, 15°52'16.0"E	592	2	1779	28,49
OLExPAL-VOR-09	Czech Republic, Vortová: spontaneous hybrid originated from the plants cultivated in the garden at the settlement Lhoty, coll. P. Bureš & J. Bureš 5/Aug/2009	49°42'41.9"N, 15°56'46.2"E	692	1	1056	82,72
	<i>Cirsium oleraceum</i> x <i>C. rivulare</i>					

OLExRIV-ČACH-09	Czech Republic, Čachnov: wet pasture meadow below the road, 0.7 S of the railway station, coll. P. Bureš & J. Bureš 30/Jun/2009.	49°44'45.6"N, 16°03'37.0"E	639	3	2935	77,39
OLExRIV-DBEN-06	Czech Republic, Dolní Benešov: E margin of nature reserve Zábřežské louky, coll. J. Konečný 16/Jun/2006.	49°55'02.0"N, 18°04'40.0"E	223	2	1355	70,97
OLExRIV-KAJ-06	Czech Republic, Kajlovec: along the road to the village of Lesní Albrechtice, coll. J. Konečný 17/Jun/2006.	49°49'43.0"N, 17°53'12.4"E	382	2	1392	70,96
OLExRIV-KRUC-07	Czech Republic, Krucemburk: wet meadows at S shore of the pond of Řeka S of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°40'04.6"N, 15°51'15.4"E	555	6	11173	85,96
OLExRIV-MAR-06	Czech Republic, Brno-Líšeň: wet meadow along the ponds in the valley of Mariánské údolí, coll. J. Konečný 9/Jun/2006.	49°12'55.0"N, 16°43'06.0"E	273	2	952	73,42
OLExRIV-OPAT-08a	Czech Republic, Opatov: meadows along the brook above the Černý rybník pond W of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°48'48.7"N, 16°28'04.0"E	457	3	5740	72,56
OLExRIV-OPAT-08b	Czech Republic, Opatov: meadows along the brook above the Černý rybník pond W of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°48'49.7"N, 16°28'24.0"E	452	2	2615	91,27
OLExRIV-RVA-07	Czech Republic, Rváčov: wet meadow at the road E of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°46'06.5"N, 15°52'18.1"E	592	1	3525	68,41
OLExRIV-SEM-08	Czech Republic, Semanín: meadow along the brook S of the village, coll. P. Bureš & J. Bureš 14/Jul/2008.	49°51'04.1"N, 16°28'20.1"E	415	6	6891	77,39
OLExRIV-SKELH-09	Czech Republic, Herálec: along the road to Vortová N of the village, coll. P. Bureš 30/Jun/2009	49°41'42.1"N, 15°58'03.8"E	676	10	4365	88,07
OLExRIV-UHL-08	Czech Republic, Lopeník: wet meadow near the ski slope Uhliska, coll. P. Bureš 29/Jun/2008.	48°57'26.3"N, 17°47'45.5"E	636	3	7358	69,56
OLExRIV-USL-09	Czech Republic, Svatka along the road to Herálec, coll. P. Bureš & J. Bureš 30/Jun/2009	49°42'23.8"N, 15°59'59.1"E	649	10	11512	85,16
OLExRIV-VEL-08	Czech Republic, Velká nad Veličkou: spring meadow in nature reserve of Machová, coll. P. Bureš 27/Jun/2008.	48°50'00.9"N, 17°32'29.6"E	469	5	6297	73,24
OLExRIV-ŽIT-08	Czech Republic, Žitková: wet meadow on the N margin of the village, coll. P. Bureš 27/Jun/2008.	48°59'02.9"N, 17°53'05.1"E	568	2	1938	95,33
OLExRIV-ŽITH-08	Czech Republic, Žitková-Koprvasy: wet meadow near of the nature reserve Hutě, coll. P. Bureš 3/Jul/2008.	48°59'21.0"N, 17°54'05.0"E	444	5	7073	90,58
	<i>Cirsium palustre</i> x <i>C. rivulare</i>					
PALxRIV-ČACH-06	Czech Republic, Čachnov wet pasture meadow below the road 0.7 S of the railway station, coll. P. Bureš & J. Bureš 24/Jun/2006.	49°44'45.6"N, 16°03'37.0"E	639	3	2411	74,54

PALxRIV-HER-08	Czech Republic, Herálec: meadow above the pond in E margin of the village, coll. P. Bureš & J. Bureš 2/Jul/2008.	49°41'03.9"N, 15°59'59.4"E	647	6	5844	73,33
PALxRIV-HUŤ-07	Czech Republic, Mariánská Huť: wet meadow N of the village, coll. P. Bureš & J. Bureš Jul/2007.	49°40'53.3"N, 15°57'40.7"E	680	3	2045	60,08
PALxRIV-KAJ-06	Czech Republic, Kajlovec: along the road to the village of Lesní Albrechtice, coll. J. Konečný 17/Jun/2006.	49°49'43.0"N, 17°53'12.0"E	382	3	2110	68,58
PALxRIV-KOC-08	Czech Republic, Herálec- Kocanda wet meadow W of the village, coll. P. Bureš & J. Bureš 25/Jun/2008.	49°40'45.5"N, 15°59'07.5"E	645	6	18493	62,85
PALxRIV-KUCH-09	Czech Republic, Herálec: along the road to Vortová N of the village, coll. P. Bureš 30/Jun/2009	49°41'42.1"N, 15°58'03.8"E	676	3	1097	37,86
PALxRIV-PODBR-09	Czech Republic, Sklené: nature reserve "Pod Brožovou skalou" N of the village, coll. P. Bureš 4/Jul/2009	49°37'05.0"N, 16°00'39.6"E	731	23	3919	61,62
PALxRIV-RAD-06	Czech Republic, Radostín: wet meadow below the hill of Radostínský kopec S of the village, coll. P. Bureš & J. Bureš 24/Jul/2006	49°38'46.0"N, 15°53'12.0"E	616	3	2225	75,19
PALxRIV-RAT-07	Czech Republic, Hlinsko: wet meadow near ponds Ratajské rybníky N of the town, coll. P. Bureš Jul/2007.	49°46'10.5"N, 15°56'4.6"E	589	1	710	67,51
PALxRIV-UHL-08	Czech Republic, Lopeník: wet meadow near ski slope Uhliska, coll. P. Bureš 29/Jun/2008.	48°57'26.3"N, 17°47'45.5"E	655	2	1305	45,10
PALxRIV-ZLAM-08	Czech Republic, Vortová: wet meadow near the pond Zlámanec, coll. P. Bureš & J. Bureš 25/Jun/2008.	49°42'17.1"N, 15°55'54.2"E	623	3	6777	87,78