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I.1 *Salvinio-Spirodeletum*

total number of the stands: 11	Bodrog-oxbow	north-eastern border-Tokaj	Lake Tisza	Tokaj-Szolnok	Berettyó	Körös-oxbow	Szolnok - southern border	
number of the relevés: 2 (AD) + 26 (%) = 28	average cover (%)	average cover (%)	average cover (%)	(%)	average cover (%)	average cover (%)	range of the AD values	K
Alisma plantago-aquatica		0.14						I
Bolboschoenus maritimus							+	I
Butomus umbellatus		0.29					+	I
Carex gracilis							+	I
Ceratophyllum demersum	14.00	36.74	24.00		12.53	28.33		III
Equisetum hiemale		0.37						I
Glyceria maxima	3.20				11.00			II
Gratiola officinalis		0.07						I
Hydrocharis morsus-ranae		2.65	0.02		0.25		1-3	III
Lemna minor	9.40	2.25	5.00	1	0.28	1.67		IV
Lemna trisulca	48.00		3.00					II
Lysimachia vulgaris							+	I
Oenanthe aquatica		0.01					+	I
Phragmites australis							+	I
Polygonum amphibium var. aquaticum							+-1	I
Polygonum amphibium				3				I
Potamogeton perfoliatus					0.03			I
Salix cinerea					0.25			I
Salvinia natans	73.40	89.39	89.20	85.00	44.80	18.33	2-3	V
Schoenoplectus lacustris					0.03		1	II
Sium latifolium							+	I
Solanum dulcamara					0.30			I
Sparganium erectum	26.20							I
Spirodela polyrhiza	10.00	8.45	0.02	1.00	24.53	2.33	2	IV
Stratiotes aloides		1.61			0.50			II
Trapa natans			3.80	10.00	12.50	16.67	+	III
Typha angustifolia					0.30			I
Typha latifolia					0.25		+	II
Utricularia vulgaris	13.20							I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Bodrog-oxbow			
Kengyel-oxbow, Bodroghalász	4 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Viss-oxbow, Viss	1(%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Tisza from the north-eastern border to Tokaj			
Lake Bence	1 (%)	June 1990	János Nagy (in Nagy, 2002)
Zsaró-rivulet, Tokaj	1(%)	July 2003	Zoltán Tuba (in Szirmai et al., 2006)
Zsaró-rivulet, Tokaj	6(%)	August 2006	Zoltán Tuba et al. (in Szirmai et al., 2006)
Lake Tisza			
Tisza-oxbox of Hordód, Poroszló	2(%)	June 2003	Balázs András Lukács
Kisköre	3(%)	August 2003	János Nagy (unpublished)
Tisza from Tokaj to Szolnok			
Tisza-oxbow of Szóró, Besenyszög	1(%)	September 2001	Elemér Szalma (Szalma, 2003)
Berettyó river			
Berettyó (between Karcag and Püspökladány)	4(%)	September 2004	János Nagy (unpublished)
Körös river			
Körös-oxbow of Dan-zug, Gyomaendrőd	3(%)	August 1998	Károly Penksza et al. (in Penksza et al. 1999)
Tisza from Szolnok to the southern border			
Körtvélyes-oxbow, Mártély	2(AD)	1982	György Bodrogközy (Bodrogközy, 1982)

I.2 *Wolffietum arrhizae*

total number of the stands: 5	**Túr-oxbow**	**north-eastern border-Tokaj**	**Szolnok-southern border**	
number of the relevés: 7 (AD) + 9 (%) = 16	**range of the AD values**	**average cover (%)**	**range of the AD values**	**K**
Alisma plantago-aquatica			+	I
Ceratophyllum demersum		20.00	2	II
Glyceria maxima		0.56	+	II
Hydrocharis morsus-ranae		6.33		I
Lemna minor	0-2	6.33	2	IV
Lemna trisulca		62.33		I
Myosotis palustris		0.001		I
Myriophyllum spicatum			+-2	I
Nuphar lutea		5.46		I
Polygonum amphibium var. aquaticum			+-3	I
Potamogeton lucens			+-3	I
Salvinia natans	0-3	0.56		III
Spirodela polyrhiza	1-3	3.23	2	V
Stratiotes aloides		6.90		I
Typha angustifolia		1.11		I
Wolffia arrhiza	2-5	87.67	2-3	V

locality of the stands	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Túr-oxbow			
Malom-lake, Csaholc	2 (AD)	September 1977	István Fintha (Fintha, 1979)
Túr-oxbow 1 near by Borzsa-bridge, toward Ricse	1 (AD)	September 1977	István Fintha (Fintha, 1979)
Túr-oxbow 2 near by Borzsa-bridge, toward Ricse	1 (AD)	September 197	István Fintha (Fintha, 1979)
Tisza from the north-eastern border toTokaj			István Fintha (Fintha, 1979)
Török-rivulet, Viss	9 (%)	October 2005	Zoltán Tuba et al.(in Szirmai et al., 2006)
Tisza from Szolnok to the southern border			
Körtvélyes-oxbow, Mártély	3 (AD)	1982	György Bodrogközy (Bodrogközy, 1982)

II.1. *Lemno-Utricularietum*

total number of the stands: 6	Lakes of Bereg	north-eastern border-Tokaj	Bodrog-oxbow	Szolnok-southern border	
number of the relevés: 1 (AD) + 34 (%) = 35	**average cover (%)**	**average cover (%)**	**average cover (%)**	**range of the AD values**	**K**
Alisma plantago-aquatica		0.25			I
Bidens cernua		0.25			I
Carex gracilis		1.75			I
Ceratophyllum demersum		6.25	1.40		II
Cicuta virosa	1.00				I
Glyceria maxima	1.50		4.56	+	IV
Hydrocharis morsus-ranae	11.10	61.25	6.08		IV
Lemna minor	15.70	2.53	5.79	1	V
Lemna trisulca		4.00	63.35		III
Nymphaea alba		0.75			I
Polygonum lapathifolium		0.50			I
Salix cinerea	0.05				I
Salvinia natans	4.10	1.25	43.80	+	IV
Sium latifolium				1	I
Sparganium erectum			4.92	1	II
Spirodela polyrhiza		1.25	0.40		II
Stratiotes aloides	14.60				I
Typha latifolia			13.60		I
Utricularia vulgaris	79.00	78.75	92.10	5	V

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Lakes of Bereg			
Bence-lake, Csaroda	6 (%)	July 2000	János Nagy (Nagy, 2002)
Zsid-lake, Csaroda	4 (%)	July 2000	János Nagy (Nagy, 2002)
Tisza from north-eastern border to Tokaj			
Tisza-oxbow of Boroszlókert, Gulács	3 (%)	July 2003	András Balázs Lukács (unpublished)
Török-rivulet, Viss-szivattyútelep	1 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)

Bodrog			
Kengyel-oxbow, Bodroghalász	20 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Tisza from Szolnok to the southern border			
Tisza-oxbow of Kistisza-sziget, Csongrád	1 (AD)	August 1953	Lajos Tímár (Tímár, 1954)

III.1 *Potametum lucentis*

total number of the stands: 8	**North-eastern border-Tokaj**	**Lake Tisza**	**Lake Tisza**	**Kőrös**	**Szolnok-southern border**	
number of the relevés: 10 (AD) + 15 (%) = 25	**average cover (%)**	**average cover (%)**	**range of the AD values**	**average cover (%)**	**range of the AD values**	**K**
Alisma plantago-aquatica					+	I
Bolboschoenus maritimus			1-2		1	II
Ceratophyllum demersum	23.5	10.67	1-2		1	IV
Glyceria maxima					+	I
Eleocharis palustris					+	II
Hydrocharis morsus-ranae	20		1-2	7.50	+-1	III
Lemna minor	2.2	0.10	+-2	1.50		III
Lemna trisulca		0.10				I
Lysimachia vulgaris					+	I
Myriophyllum spicatum		3.33	+-2		2	II
Nuphar lutea			+-1			I
Phragmites australis			+-2			I
Polygonum amphibium				5.00	+-1	II
Polygonum amphibium var. aquaticum					+	I
Potamogeton gramineus					3	I
Potamogeton lucens	71.5	83.33	4-5	45.00	3-4	V
Potamogeton perfoliatus		1.67			1	II
Rorippa amphibia					+	I
Sagittaria sagittifolia			+		1	II
Salvinia natans	45	5.00		7.50		II
Schoenoplectus lacustris				2.50		I
Sparganium erectum				5.00		I
Spirodela polyrhiza	0.32	0.07		2.50	+	III
Stratiotes aloides	1					I
Trapa natans			1-2	15.00	1-2	III

locality of the stands/group	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Tisza-oxbow of Rózsás-dűlő, Mezőladány	5 (%)	July 2003	András Balázs Lukács (unpublished)
Zsaró-rivulet	5 (%)	October 2005	Zoltán Tuba et al.(in Szirmai, 2006)
Lake Tisza			
Tisza- oxbow of Hordód, Poroszló	3 (%)	July 2003	András Balázs Lukács (unpublished)
Tiszafüred	6 (AD)	1965	György Bodrogközy (Bodrogközy, 1965)
Körös			
Körös-oxbow of Dan-zug,	2 (%)	August 1998	Károly Penksza et al. (Penksza et al. 1999)
Tisza from Szolnok to the southern border			
Körtvélyes-oxbow, Mártély	2 (AD)	1982	György Bodrogközy (Bodrogközy, 1982)
Algyő, Nagyfa	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)
Algyő, under the Sport Airpot	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)

III.2 *Myriophyllo-Potametum*

total number of the stands: 2	Lake Tisza	Szolnok-southern border
number of the relevés: 1 (AD) + 2 (%) =3	average cover (%)	AD values
Hydrocharis morsus-ranae	10.00	
Lemna minor	1.05	
Lemna trisulca	0.55	
Myriophillum spicatum		5
Myriophyllum verticillatum	50.00	
Potamogeton natans	3.50	
Potamogeton perfoliatus	30.00	
Salvinia natans	17.50	
Spirodela polyrhiza	12.50	
Trapa natans	2.50	+

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Lake Tisza			
Tisza-oxbow of Hordód, Poroszló	2 (%)	July 2003	András Balázs Lukács (unpublished)
Tisza from Szolnok to the southern border			
Tisza-oxbow of Atka, Sövényháza	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)

III.3 *Nymphaeetum albo-luteae*

total number of the stands: 19	north-eastern border - Tokaj	Bodrog-oxbow	Lake Tisza	Lake Tisza	Szolnok-Tokaj	Szolnok-Tokaj	Szolnok-southern border	Szolnok-southern border	navvy-hole (Szolnok-southern border)	
number of the relevés: 11(AD) + 50(%) = 61	**average cover (%)**	**average cover (%)**	**average cover (%)**	**AD**	**range of the AD values**	**average cover (%)**	**average cover (%)**	**range of the AD values**	**range of the AD values**	**K**
Agrostis stolonifera	0.00									I
Alisma plantago-aquatica	0.09									I
Bidens tripartitus					1-+					I
Butomus umbellatus	0.00				2					I
Carex gracilis								+	+	I
Ceratophyllum demersum	17.96	4.08	45.00	3		22.50	11.43	2		III
Cirsium arvense					+					I
Echinochloa crus-galli					+					I
Equisetum telmateia		0.01								I
Euphorbia palustris										I
Glyceria maxima	0.00	0.08					4.29			II
Eleocharis acicularis					+					I
Eleocharis palustris					1			1	1	I
Hottonia palustris	0.17						1.57			I
Hydrocharis morsus-ranae	4.68					1.50	4.57			II
Lemna minor	0.26		0.05	2			0.43			III
Lemna trisulca	3.22	0.54	0.08			2.50	8.57			III
Mentha arvensis					1					I
Myriophyllium spicatum			6.67				1.43			I
Nuphar lutea	11.36	46.54					1.86	1-4		II
Nymphaea alba	58.86	17.92	92.50	3	5-1	67.50	41.43	1-5	1-3	V
Nymphoides peltata					1-+					I
Oenanthe aquatica	0.22						2.14	1		I
Plantago major cf. intermedia					+					I
Polygonum amphibium					+-1	2.50	0.43	+-2	1	III
Polygonum lapathifolium	0.05									I
Potamogeton crispus						0.50		+		I
Potamogeton gramineus					+				+	I

Potamogeton lucens	3.18				3					I
Potamogeton filiformis							1.43			I
Ricciocarpus natans							0.14			I
Rorippa amphibia	1.37				1		1.71		+-1	II
Sagittaria sagittifolia					3			+	+-3	II
Salix alba					1				+-1	I
Salvinia natans	1.22	1.47		2			1.86	+-4		III
Schoenoplectus lacustris		0.08					0.14		+	I
Sium latifolium									+	I
Sparganium erectum	0.05				+		0.71		2	II
Spirodela polyrhiza	0.11		0.03	1		1.50	1.00	2		III
Stratiotes aloides	2.05	15.35					12.14			II
Trapa natans	2.95		3.33			1.50	0.43	1		II
Typha angustifolia	2.50							1		I
Typha latifolia								1		I
Urtica kioviensis							0.43			I
Utricularia australis							0.14			I
Utricularia vulgaris	1.36						1.43			II
Wolffia arrhiza							0.29			I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Tisza-oxbow of Boroszló-kert, Gulács	7 (%)	June 2004	András Balázs Lukács (unpublished)
Tisza-oxbow of Rózsásdűlő	6 (%)	July 2003	András Balázs Lukács (unpublished)
Török-rivulet pumping-station, Viss	7 (%)	October 2005	Zoltán Tuba et al.(in Szirmai, 2006)
Zsaró-rivulet, Tokaj	2 (%)	July 2003	Zoltán Tuba (in Szirmai et al., 2006)
Bodrog			
Viss-oxbow, Viss	5 (%)	October 2005	Zoltán Tuba et al.(in Szirmai, 2006)
Lake Nagy, Bodrogzug	8 (%)	June 2004	Zoltán Tuba (in Szirmai et al., 2006)
Lake Tisza			
Tisza-oxbow of Hordód, Poroszló	6 (%)	July 2003	András Balázs Lukács (unpublished)
Lake Tisza, Abádszalók	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba, 1989)
Tisza from Szolnok to Tokaj			
temporary Lake Alcsi, Szolnok	1 (AD)	August 1947	Lajos Tímár (Tímár, 1954)
Alcsi, Szolnok	1 (AD)	July 1952	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Csatló, Kőtelek	2 (%)	September 2001	Elemér Szalma (Szalma, 2003)

Tisza from Szolnok to the southern border			
Lake Sulymos, Tőserdő	1 (%)	May 1983	Elemér Szalma (Szalma, 2003)
Lake Sulymos, Tőserdő	1 (%)	June 1987	Elemér Szalma (Szalma, 2003)
Lake Sulymos, Tőserdő	1 (%)	June 1998	Elemér Szalma (Szalma, 2003)
Tisza-oxbow of Alpár, Tiszaalpár	4 (%)	August 1998	Elemér Szalma (Szalma, 2003)
Lake Sulymos, Kecskemét	1 (AD)	September 1952	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Nagysziget, Tiszaug	3 (AD)	August 1952	Lajos Tímár (Tímár, 1954)
Tisza-oxbow at Station, Tiszaug	1 (AD)	August 1953	Lajos Tímár (Tímár, 1954)
Navvy-hole, Tápé	3 (AD)	August 1951	Lajos Tímár (Tímár, 1954)

III.4 *Trapetum natantis*

total number of the stands: 35	north-eastern border-Tokaj	Bodrog	Lake Tisza	Lake Tisza	Tokaj - Szolnok	Szolnok - southern border	Szolnok - southern border	
number of the relevés: 41 (AD) + 55 (%) = 96	average cover (%)	average cover (%)	average cover (%)	range of the AD values	average cover (%)	average cover (%)	range of the AD values	K
Alisma plantago-aquatica							+	I
Butomus umbellatus	0.01	0.01					+-1	I
Ceratophyllum demersum	49.09	17.78	47.06	+-1	2.25	7.29	1-3	IV
Eleocharis palustris							+	I
Glyceria maxima		1.17					+	I
Hydrocharis morsus-ranae	1.36	0.01	1.36	2		2.50		II
Lemna minor	0.01	0.00	3.62	+-2	3.00	1.21	1-2	III
Lemna trisulca	0.01		7.84	+-1		0.07	+	II
Lythrum salicaria							+-1	I
Marsilea quadrifolia		0.56						I
Myriophyllum spicatum						0.07	1-2	I
Myriophyllum verticillatum				+				I
Najas marina			1.76	+-1		0.14		II
Najas minor				1				I
Nuphar lutea	0.09	0.33		1				I
Nymphaea alba			0.24	1				I
Nymphoides peltata				+-3				I
Phragmites australis			0.18					I
Polygonum amphibium				2			+-3	I
Potamogeton lucens						0.36	3	I
Potamogeton crispus						0.07	1	I
Potamogeton graminea				+				I
Potamogeton nodosus				+-2				I
Potamogeton pectinatus				+				I
Potamogeton perfoliatus				+-3				I
Potamogeton natans			0.12					I
Riccia fluitans				+				I
Sagittaria sagittifolia		0.01					+-1	I

Salix alba							+	I
Salvinia natans	0.91		5.42	+-3	5.00	7.86		III
Schoenoplectus lacustris		0.01						I
Sparganium erectum		0.56						I
Spirodela polyrhiza	0.02	0.01	0.09	+-3		0.71		III
Stratiotes aloides	0.91	8.33						I
Trapa natans	90.91	73.67	89.24	+-5	90.00	78.50	3-5	V
Utricularia vulgaris			0.24					I
Utricularia australis				+-1		0.36		II
Zygnemales sp.				1				I

locality of the stands/group	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Tisza-oxbow of Boroszló-kert, Gulács	5 (%)	June 2004	András Balázs Lukács (unpublished)
Tisza-oxbow of Rózsásdűlő	5 (%)	July 2003	András Balázs Lukács (unpublished)
Zsaró-rivulet, Tokaj	1 (%)	July 2003	Zoltán Tuba et al. (Szirmai, 2006)
Bodrog			
Kengyel-oxbow	3 (%)	July 2003	Zoltán Tuba (in Szirmai, 2006)
Viss-oxbow	6 (%)	October 2005	Zoltán Tuba et al.(in Szirmai, 2006)
Lake Tisza			
Tisza-oxbow of Hordód, Poroszló	5 (%)	June 2004	András Balázs Lukács (unpublished)
Basin of Poroszló	2 (%)	August 2004	András Schmotzer, József Sulyok
Brook of Eger (Basin of Poroszló)	2 (%)	August 2004	András Schmotzer, József Sulyok
Tisza-oxbow of Csapó (Basin of Poroszló)	1 (%)	August 2004	András Schmotzer, József Sulyok
Lake Tisza, Kisköre	7 (%)	August 2003	János Nagy (unpublished)
Tiszavalk	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Basin of Valk	3 (AD)	July 1996	Elemér Szalma (Szalma, 2003)
Poroszló	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Kozmafok, Basin of Sarud	4 (AD)	July 1996	Elemér Szalma (Szalma, 2003)
Basin of Sarud	11 (AD)	July 1996	Elemér Szalma (Szalma, 2003)
Sarud	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Abádszalók	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Kisköre	7 (AD)	July 1996	Elemér Szalma (Szalma, 2003)
Tisza from Tokaj to Szolnok			
Lake Gó, Tiszaroff	2 (%)	September 2001	Elemér Szalma (Szalma, 2003)

Tisza-oxbow of Szóró, Besenyszög	2 (%)	September 2001	Elemér Szalma (Szalma, 2003)
Tisza from Szolnok to the southern border			
Tisza-oxbow of Feketeváros, Szolnok	2 (%)	August 2001	Elemér Szalma (Szalma, 2003)
Tisza-oxbow of Labodár, Csanytelek	2 (%)	July 1996	Elemér Szalma (Szalma, 2003)
Tisza-oxbow of Labodár, Csanytelek	2 (%)	August 2001	Elemér Szalma (Szalma, 2003)
Osztorai-oxbow, Szegvár	2 (%)	July 1996	Elemér Szalma (Szalma, 2003)
Osztorai-oxbow, Szegvár	2 (%)	August 2001	Elemér Szalma (Szalma, 2003)
Tisza-oxbow of Mártély	2 (%)	August 2001	Elemér Szalma (Szalma, 2003)
Tisza-oxbow of Körtvélyes	2 (%)	August 2001	Elemér Szalma (Szalma, 2003)
Tisza-oxbow, at railway, Szolnok	1 (AD)	July 1947	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Körtvélyes, Hódmezővásáhely	3 (AD)	September 1951	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Körtvélyes	2 (AD)	1981	György Bodrogközy (Bodrogközy, 1981)
Tisza-oxbow of Hódmezővásáhely	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Atka, Sövényháza	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Sasér, Sövényháza	2 (AD)	August 1951	Lajos Tímár (Tímár, 1954)
Tisza-oxbow of Nagyfa, Algyő	1 (AD)	August 1951	Lajos Tímár (Tímár, 1954)
Kistisza-channel, Algyő	1 (AD)	July 1951	Lajos Tímár (Tímár, 1954)

IV Nanocyperetalia

total number of the stands: 26	Tisza recent		Tisza archive			
number of the relevés: 2(AD) + 86 (%) = 88	Average cover (%)	K	Average cover (%)	K	Range of AD scale	K
Elymus repens	1.63	I	1.0	II	-	-
Agrostis stolonifera	7.41	III	1.5	IV	+	III
Alisma gramineum	5.40	I	-	-	-	-
Alisma lanceolata	1.20	I	0.1	I	-	-
Alisma plantago-aquatica	2.90	II	-	-	2	III
Alopecurus aequalis	4.34	I	-	-	-	-
Amaranthus lividus	2.03	II	-	-	-	-
Amaranthus retroflexus	0.86	I	-	-	-	-
Atriplex hastata	0.10	I	-	-	-	-
Atriplex oblongifolia	1.10	II	-	-	-	-
Batrachium aquatile	1.07	I	-	-	-	-
Bidens cernua	11.38	II	-	-	+	III
Bidens tripartitus	1.26	II	0.4	V	1	III
Bolboschoenus maritimus	1.12	I	-	-	-	-
Butomus umbellatus	0.10	I	-	-	-	-
Carex bohemica	10.53	I	-	-	-	-
Carex serotina	10.97	II	-	-	-	-
Chenopodium album	2.16	II	0.1	IV	-	-
Chenopodium ficifolium	1.00	I	-	-	-	-
Chenopodium glaucum	0.10	I	-	-	-	-
Chenopodium polyspermum	0.55	II	-	-	-	-
Chenopodium rubrum	2.94	II	-	-	1	III
Cirsium arvense	1.46	I	-	-	1	III
Convolvulus arvensis	-	-	-	-	1	III
Cyperus difformis	3.72	I	-	-	-	-
Cyperus fuscus	6.91	III	-	-	1	III
Cyperus glomeratus	0.10	I	-	-	-	-
Cyperus michelianus	13.39	II	-	-	+-1	V
Echinochloa crus-galli	3.56	III	0.55	IV	+	V
Elatine alsinastrum	1.51	I	-	-	-	-
Elatine hungarica	7.51	I	-	-	-	-

Elatine triandra	5.83	I	-	-	-	-
Eleocharis acicularis	32.33	I	90.0	III	-	-
Eleocharis ovata	9.17	II	-	-	-	-
Eleocharis palustris	0.83	I	3.0	III	-	-
Glyceria fluitans	3.92	I	-	-	-	-
Glyceria maxima	1.82	I	-	-	-	-
Glycyrrhiza echinata	-	-	-	-	+	III
Gnaphalium uliginosum	5.60	II	-	-	+-4	V
Heleochloa alopecuroides	20.32	I	50.0	IV	2-3	V
Juncus articulatus	10.33	II	-	-	-	-
Juncus buffonius	3.97	II	-	-	-	-
Juncus compressus	0.30	I	0.1	III	-	-
Juncus effusus	0.55	I	-	-	-	-
Leersia oryzoides	4.98	II	-	-	-	-
Lemna minor	3.06	I	-	-	-	-
Limosella aquatica	2.18	I	-	-	-	-
Lindernia procumbens	5.79	I	-	-	-	-
Lycopus europeaus	1.95	II	-	-	-	-
Lythrum hyssopifolia	5.31	I	-	-	-	-
Lythrum salicaria	4.10	I	-	-	-	-
Lythrum virgatum	1.06	II	0.1	IV	-	-
Malva neglecta	0.81	I	-	-	-	-
Tripleurospermum inodorum	0.23	I	0.1	III	-	-
Mentha aquatica	0.58	I	-	-	-	-
Myriophyllum spicatum	-	-	-	-	1	III
Nymphoides peltata	-	-	-	-	+	III
Oenanthe aquatica	5.30	I	-	-	-	-
Peplis portula	2.81	I	-	-	-	-
Plantago major	3.57	II	3.0	III	2	III
Poa trivialis	11.61	I	-	-	-	-
Persicaria amphibium	7.00	I	-	-	1	III
Persicaria aviculare	1.14	I	10.0	III	2	-
Persicaria hydropiper	1.30	I	-	-	-	-
Persicaria lapathifolium	2.61	III	-	-	+	III
Portulaca oleracea	1.53	I	-	-	-	-
Potentilla supina	1.54	I	-	-	1	III
Ranunculus sardous	5.25	I	-	-	+	III

Ranunculus sceleratus	15.47	II	-	-	-	-
Rorippa austriaca	0.10	I	0.1	III	+	III
Rorippa sylvestris	7.08	II	5.0	III	-	III
Rubus caesius	-	-	-	-	+	III
Rumex crispus	1.44	II	-	-	-	-
Rumex hydrolapathum	0.28	I	-	-	-	-
Rumex stenophyllus	4.93	II	-	-	-	-
Salix triandra	1.66	I	-	-	-	-
Schoenoplectus supinus	6.14	I	-	-	-	-
Solanum dulchamara	1.06	I	-	-	-	-
Solanum nigrum	0.25	I	-	-	-	-
Sonchus arvensis	0.10	I	-	-	-	-
Sonchus asper	0.10	I	-	-	-	-
Sparganium erectum	9.02	I	-	-	-	-
Stachys palustris	0.10	I	0.1	III	-	-
Symphytum officinale	8.00	I	-	-	+	III
Tanacetum vulgare	2.13	II	-	-	-	-
Typha angustifolia	2.10	I	-	-	-	-
Typha latifolia	2.74	II	-	-	-	-
Urtica dioica	5.24	I	-	-	-	-
Veronica anagallis-aquatica	1.60	I	-	-	-	-
Veronica beccabunga	1.10	I	-	-	-	-
Veronica sp.	2.90	I	-	-	-	-
Xanthium italicum	1.85	II	3.0	IV	-	-
Xanthium strumarium	-	-	-	-	+	III

locality of the stands	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Upper-Tisza			
Between Csaroda and Gelénes	1 (%)	27 September 1998	Attila Molnár V., Norbert Pfeiffer
Beregsurány: to Beregdaróc	1 (%)	22 June 1999	Attila Molnár V., Norbert Pfeiffer
Beregsurány: to Tarpa.	1 (%)	22 June 1999	Attila Molnár V., Norbert Pfeiffer
East from Tarpa, cc. 500 m	2 (%)	22 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszatelek: to Újdombrád	1 (%)	6 July 1999	Attila Molnár V., Norbert Pfeiffer
Dombrád: to Újdombrád	2 (%)	6 July 1999	Attila Molnár V., Norbert Pfeiffer
Dombrád: to Tiszakanyár	1 (%)	15 August 1999	Attila Molnár V., Norbert Pfeiffer
Kisar-Panyola: Kerice-háti-morotva	3 (%)	19 June 2004	András Lukács Balázs, Péter Török

Tarpa: Ducskósi-morotva	1 (%)	22 July 2004	András Lukács Balázs, Péter Török
Middle-Tisza			
Tiszanána: Galambos	4 (%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszanána: West to Dinnye-hát	3 (%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszagyenda	1(%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszagyenda	1(%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszafüred: Hagymás-lapos	2(%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszagyenda.	3 (%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Tiszaderzs.	2 (%)	17 June 1999	Attila Molnár V., Norbert Pfeiffer
Szajol: Alamánd	2 (%)	14 August 1999	Attila Molnár V., Norbert Pfeiffer
Kisköre: Rák-hát	1 (%)	17 September 1999	Attila Molnár V., Norbert Pfeiffer
Tiszpüspöki: Felső-földek	3 (%)	17 September 1999	Attila Molnár V., Norbert Pfeiffer
Abádszalók, nearby a backwater (*Polygono-Eleocharitetum ovatae*)	1 (%)	June 1964	György Bodrogközy (Bodrogközy, 1965)
Kisköre (*Dichostylido-Heleochloetum alopecuroidis*)	1 (%)	July 1981	György Bodrogközy
Lower-Tisza			
Körtvélyes (*Dichostylido-Heleochloetum alopecuroidis*)	1 (%)	September 1974	György Bodrogközy (Bodrogközy, 1982)
Tiszaalpár	1 (AD)	October 1962	György Bodrogközy
Tiszaug, Along Tisza-River	1 (AD)	June 1958	György Bodrogközy
Tiszaalpár (*Eleocharito-Caricetum bohemicae* Klika em. Pietsch).	34 (%)	1985	István Bagi (Bagi, 1988)
River Körös			
Békésszentandrás: floodplain of Körös-River.	12 (%)	1982	István Bagi (Bagi, 1985)

V.1 *Glycerietum maximae*

total number of the stands: 11	north-eastern border-Tokaj	north-eastern border- Tokaj	Lake of Bereg	Bodrog	Szolnok - southern border	
number of the relevés: 1 (AD) +33 (%)= 34	range of the AD values	average cover (%)	average cover (%)	average cover (%)	average cover (%)	K
Agrostis stolonifera	1			7.43		I
Alisma lanceolatum	1				0.22	I
Alisma plantago-aquatica		3.79		0.43		II
Alopecurus pratensis		0.04		0.59		I
Althaea officinalis				0.01		I
Ambrosia artemisiifolia		0.0015				I
Ballota nigra			0.17			I
Bidens cernua		2.5				I
Bidens tripartita				0.01		I
Butomus umbellatus				0.29	0.22	II
Calamagrostis epigeios		0.15	0.15			I
Calystegia sepium		0.25		0.16		I
Carex acutiformis		3.125			5.00	I
Carex elata	+	2.375	1.63		11.00	II
Carex elongata			2.38			I
Carex gracilis		0.0015				I
Carex hirta		1.625				I
Carex riparia				1.44		I
Carex vulpina	+					
Ceratophyllum submersum			2.31			I
Chenopodium album			0.05			I
Cirsium arvense		0.44		0.16		I
Conyza canadensis			0.08			I
Drepanocladus aduncus	+					
Elatine alsinastrum	+					
Eleocharis palustris					3.40	I
Eleocharis acicularis	+					
Eleocharis carniolica	+					

Equisetum palustre		0.25				I
Euphorbia lucida					0.22	I
Galium palustre	+	0.265	0.19			I
Glyceria maxima	3	75	83.46	81.00	60.60	V
Gratiola officinalis	+					
Hydrocharis morsus-ranae			1.23	0.57		II
Inula britannica	1					
Iris pseudacorus	+	1	0.42	0.43	1.50	II
Juncus atratus	2					
Juncus effusus		0.125				I
Juncus tenuis		0.015				I
Lactuca serriola			0.08			I
Lemna minor			8.55	6.86		III
Lemna trisulca			27.31	38.57		II
Lycopus europaeus	+	0.875	0.01	0.43		II
Lysimachia nummularia	+			0.01		I
Lysimachia vulgaris		0.575	0.82	0.43	0.10	II
Lythrum salicaria	+	0.515		0.57		I
Lythrum virgatum					0.42	I
Marsilea quadrifolia				0.07		I
Matricaria maritima		0.0015				I
Oenanthe aquatica		0.015				I
Peplis portula	+					
Phalaris arudinacea					1.80	I
Plantago major		0.125			0.20	I
Poa palustris		0.015				I
Polygonum amphibium		0.265			0.02	I
Polygonum lapathifolium		0.165		0.71		I
Potentilla anserina				0.14		I
Ranunculus flammula	2					
Ranunculus repens	+	0.915	0.02			I
Ranunculus sceleratus		0.05				I
Rorippa amphibia		1.5				I
Rumex crispus	+	0.025			0.12	II
Sagittaria sagittifolia		0.25				I
Salix fragilis			0.77			I
Salix cinerea			1.85			I

Salvinia natans			0.23	12.01		II
Schoenoplectus lacustris			0.00		3.20	II
Scutellaria galericulata	+		0.54			I
Sium latifolium	1					
Sonchus palustris		0.0015				I
Sparganium erectum		4.5		0.14		II
Spirodela polyrhiza			3.09			I
Stachys palustris	+	0.1		0.29		II
Stellaria palustris	+					
Stratiotes aloides			0.08			I
Symphytum officinale		1.275	0.24		0.90	II
Tanacetum vulgare			0.46			I
Taraxacum officinale			0.00			I
Trifolium repens		0.015				I
Typha latifolia				0.43		I
Urtica dioica		0.025				I
Utricularia vulgaris	+			54.30		I
Veronica scutellata	+					
Vicia angustifolia				0.01		I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Tisza-oxbow, Boroszló-kert, Gulács	4 (%)	July 2004	András Balázs Lukács (unpublished)
Gelénes	1 (AD)	1951	Tibor Simon (Simon, 1951)
Pallagcsa-meadow	4 (%)	June 2005	Zoltán Tuba et al. (in Szirmai et al, 2006)
Lake of Bereg			
Navat-streamlet	7 (%)	July 2003	János Nagy, Dániel Cserhalmi (unpublished)
Lake Bence,Csaroda	4 (%)	August 1994	János Nagy (Nagy, 2002)
Lake Bence,Csaroda	1 (%)	July 2000	János Nagy (Nagy, 2002)
Lake Bence,Csaroda	1 (%)	August 2004	János Nagy (unpublished)
Bodrog			
Kengyel-oxbow	5 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al, 2006)
Ócodrog-oxbow	2 (%)	June 2005	Zoltán Tuba et al. (in Szirmai et al, 2006)
Tisza from Szolnok to the southern border			
Nagy-meadow, Tiszajenő	3 (%)	2004	Mária Szitár (Szitár, 2005)
Nagy-meadow, Tiszajenő	2 (%)	2005	Mária Szitár (Szitár, 2005)

V.2 *Phragmitetum communis*

total number of the stands: 31	Lake of Bereg	Bodrog	Lake Tisza	Lake Tisza	Szolnok - southern border	Szolnok - southern border	Maros	
number of the relevés: 28(AD) + 22 (%) = 50	average cover (%)	average cover (%)	average cover (%)	range of the AD values	average cover (%)	range of the AD values	range of the AD values	K
Acer negundo						+		I
Achillea collina					6.67			I
Achillea millefolium							+-1	I
Agropyron repens						+-4	+	II
Agrostis alba						1-3	1-2	I
Alisma lanceolatum							+-2	I
Alnus glutinosa				1			+-1	I
Althaea officinalis						+	+-1	II
Amorpha fruticosa				1-2		+-1		II
Aristolochia clematitis						+	+-1	II
Artemisia pontica					0.33			I
Artemisia vulgaris						+	+-2	I
Atriplex nitens							+	I
Atriplex prostrata						+		I
Baldingera arundenacea						+-2	+-1	II
Bidens cernua	0.29							I
Bidens tripartita				+-1		+		I
Bolboschoemus maritimus				+-1			+-2	II
Butomus umbellatus				1			+-1	I
Calamagrostis epigeios						+-4	+-2	II
Calystegia sepium			0.25	+-1		+-2	+-2	IV
Carduus acanthoides						+		I
Carex acutiformis				1-2				I
Carex elata							2	I
Carex melanostachya							+-2	I
Carex riparia	0.87							I
Centaurea pannonica					10.00			I
Centaurium pulchellum							+	I

Ceratophyllum demersum				+-2				I
Chara fragilis							+-4	I
Chenopodium polyspermum							+	I
Cicuta virosa	0.43							I
Cirsium arvense							+-2	I
Clematis integrifolia							+	I
Convolvulus arvensis						+-2	+-1	I
Conyza canadensis						+	+	II
Cuscuta lupuliformis						+-1	+-1	II
Cynodon dactylon							+-1	I
Cyperus fuscus							+	I
Dipsacus laciniatus							+	I
Echinochloa crus-galli						+	+-2	I
Eleocharis palustris							1-2	I
Epilobium hirsutum				+				I
Epilobium parviflorum							+-1	I
Equisetum arvense						+-2	+-2	II
Erigeron annuus							+-2	I
Eupatorium cannabinum							+	I
Euphorbia lucida						+	+-2	II
Euphorbia palustris							+	I
Fallopia convolvulus						+		I
Festuca pseudovina					30.00			I
Fraxinus excelsior						+	+-1	I
Galium aparine	0.01						+-1	I
Galium palustre	0.01			+				I
Galium rubioides							+-1	I
Glechoma hederacea							+-2	I
Glyceria aquatica						+		I
Glyceria maxima	14.29	0.13		1			+-3	II
Glycyrrhiza echinata						+-1	+	II
Gnaphalium uliginosum						+		I
Gratiola officinalis						+	+	I
Humulus lupulus							+-2	I
Hydrocharis morsus-ranae			8.75	1				I
Hypericum tetrapterum							+-1	I
Inula britannica						+-1		I

Iris pseudacorus	0.14			+-1		+	+-3	II
Isatis tinctoria							+-2	I
Juncus articulatus							+	I
Juncus compressus							+-2	I
Lactuca serriola							+	I
Lamium purpureum							+-1	I
Lathyrus tuberosus						+-2		I
Leersia oryzoides				1				I
Lemna minor		4.63	2.53	+-2			+-3	III
Lemna trisulca		18.40	4.03					II
Leucanthemella serotina							+-1	I
Lolium perenne							1	I
Lotus corniculatus					0.67			I
Lycopus europaeus	0.43		0.28	+-1			+-2	II
Lycopus exaltatus						+	+-2	II
Lysimachia nummularia						+-3	+-4	II
Lysimachia vulgaris	0.29			+-1		+	+-1	II
Lythrum salicaria	0.47			+-1			+-1	II
Lythrum virgatum						+	+-1	II
Melandrium album							+	I
Melilotus officinalius							+	I
Mentha aquatica						+	+-2	II
Mentha longifolia							+	I
Mentha pulegium							+	I
Najas marina				1-2				I
Nymphoides peltata				1				I
Oenanthe aquatica							+-2	I
Oenothera biennis						+-1	+-2	II
Ononis semihircina							+	I
Pastinaca sativa							+-1	I
Peucedanum officinale					0.67			I
Phragmites australis	81.14	95.00	80.00	4-5	43.33	4-5	1-5	V
Picris hieracioides						+	+-1	I
Plantago major						+-1	+	I
Poa angustifolia						+		I
Poa palustris							1	I
Poa trivialis							+-3	I

Polygonum amphibium						+-1	+-1	II
Polygonum hydropiper							+	I
Polygonum lapathifolium				+-1		+	+-1	I
Polygonum minus							+	I
Populus alba						+-1		I
Populus nigra						+	+	I
Potamogeton lucens							+	I
Potamogeton nodosus				+-2				I
Potamogeton perfoliatus				+				I
Potentilla reptans							+-1	I
Potentilla supina							+	I
Prunella vulgaris							+	I
Quercus robur	0.29							I
Ranunculus aquaticus							2	I
Ranunculus repens						+		I
Ranunculus sardous							+-1	II
Ranunculus sceleratus				+			+	I
Rorippa austiaca						+		I
Rorippa sylvestris						+		I
Rubus caesius				+		+-3	+-3	II
Rumex patientia						+		I
Rumex stenophyllus						+	+	I
Rumex conglomeratus						+	+-1	I
Rumex crispus							+	I
Rumex hydrolapathum				+				I
Salix alba				+-1			+-2	I
Salix cinerea	0.43							I
Salix triandra						1-3	+-2	II
Salix viminalis				1		+		I
Salvinia natans		2.51		+-2				II
Schoenoplectus lacustris							+-3	I
Scrophularia umbrosa							+	I
Scutellaria galericulata	0.43			1			+	I
Scutellaria hastifolia								I
Setaria glauca							+	I
Shoenoplectus lacustris				1				I
Sium latifolium							+-2	I

Solanum dulcamara	2.86			1		+	+-1	II
Solidago gigantea						+		I
Sonchus asper							+	I
Sparganium erectum				+			+-1	I
Spirodela polyrhiza		0.64	4.03	+-3			1-2	III
Stachys palustris			0.05			+	+-1	II
Stellaria aquatica							+-2	I
Stellaria graminea					1.00			I
Stratiotes aloides		0.14						I
Symphytum officinale	1.14			+		+-1		II
Symphytum officinale ssp. uliginosum							+-1	II
Tanacetum vulgare						+	+-1	I
Taraxacum officinale						+		I
Teucrium scordium							+-2	I
Thalictrum flavum				1		+		I
Thalictrum lucidum							+	I
Torilis arvensis							+	I
Tripleurospermum inodorum						+		I
Typha angustifolia				+-1			1-3	II
Typha latifolia				+-1			+	I
Ulmus laevis							+-1	I
Ulmus scabra						+		I
Urtica dioica	1.80		0.03	1				I
Utricularia vulgaris		0.04						I
Verbena officinalis							+	I
Verbena supina							+	I
Veronica anagallis-aquatica							+-1	I
Veronica spicata					0.67		+	I
Vicia angustifolia							+	I
Vicia cracca						+		I
Vicia sepium							+	I
Viola elatior							+	I
Vitis sylvestris							+	I
Xanthium italicum						+	+-2	I
Xanthium strumarium						+		I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Lake of Bereg			
Bence-lake, Csaroda	2 (%)	June 1998	János Nagy (Nagy, 2002)
Bence-lake, Csaroda	5 (%)	July 2000	János Nagy (Nagy, 2002)
Bodrog			
Kengyel oxbow	8 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Lake Tisza			
Tisza-oxbow of Hordód, Poroszló	4 (%)	June 2004	András Balázs Lukács (unpublished)
Tiszavalk	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba, 1989)
Sarud	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba, 1989)
Abádszalók	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba, 1989)
Tisza-oxbow of Bere	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba, 1989)
Tisza from Szolnok to the southern border			
Fokközi-forest, Vésztő	3 (%)	June 1998	Károly Penksza, Gabriella Gubcsó (Penksza, Gubcsó 1998)
sugarfactory right-side, Szolnok	2 (AD)	June 1944	Lajos Tímár (Tímár, 1950)
sugarfactory left-side, Szolnok	2 (AD)	June 1944	Lajos Tímár (Tímár, 1950)
curve of Tószeg right-side Szolnok	1 (AD)	June 1944	Lajos Tímár (Tímár, 1950)
rim of high-side right-side, Tiszavárkony	1 (AD)	August 1944	Lajos Tímár (Tímár, 1950)
opposite with the distillery right-side, Tiszavárkony	1 (AD)	August 1944	Lajos Tímár (Tímár, 1950)
steep, clamy, right-side Tápé	1 (AD)	June 1946	Lajos Tímár (Tímár, 1950)
Maros			
Apátfalva	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)
Apátfalva	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)
Apátfalva	1 (AD)	June 1965	Mária Tóth (Tóth, 1967)
navvy hole, Makó	1 (AD)	September 1966	Mária Tóth (Tóth, 1967)
Csipkés-navvy hole, Makó	1 (AD)	May 1964	Mária Tóth (Tóth, 1967)
Csipkés (navvy hole), Makó	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)
strand forest, Makó	1 (AD)	July 1966	Mária Tóth (Tóth, 1967)
riverside, Kiszombor	1 (AD)	September 1965	Mária Tóth (Tóth, 1967)
well outlet, Ferencszállás	1 (AD)	June 1965	Mária Tóth (Tóth, 1967)
riverside, Klárafalva	1 (AD)	September 1965	Mária Tóth (Tóth, 1967)
Klárafalva	1 (AD)	October 1947	Mária Tóth (Tóth, 1967)
navvy hole, Maroslele	1 (AD)	August 1965	Mária Tóth (Tóth, 1967)
oxbow side, Deszk	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)
Deszk oxbow	1 (AD)	August 1965	Mária Tóth (Tóth, 1967)

Deszk oxbow	1 (AD)	July 1965	Mária Tóth (Tóth, 1967)
riverside, Szőreg	1 (AD)	September 1965	Mária Tóth (Tóth, 1967)

V.3 *Sparganietum erecti*

total number of the stands: 11	Lake Bereg	north-eastern border - Tokaj	Bodrog	Szolnok - southern border	Szolnok - southern border	
number of the relevés: 1 (AD) + 27 (%) = 28	average cover (%)	average cover (%)	average cover (%)	average cover (%)	range of the AD values	K
Agrostis stolonifera	0.11	0.29				I
Alga sp.		10.00				I
Alisma plantago-aquatica	0.56	1.16		1.00		II
Alopecurus pratensis	0.78		0.01			I
Ambrosia artemisiifolia	0.01					I
Bidens tripartitus	0.01	1.71				I
Butomus umbellatus	1.44		0.03	1.00		II
Carex pseudocyperus	0.11					I
Carex riparia	1.33					I
Ceratophyllum demersum			41.50			I
Ceratophyllum submersum	0.56					I
Chara sp.			0.30			I
Cirsium palustre		0.14	0.01			I
Cirsium vulgare	0.44					I
Echinocloa crus-galli		0.14	0.01			I
Elatine hungarica		0.71				I
Equisetum arvense	0.22					I
Equisetum palustre		1.86				I
Galium palustre		0.01				I
Glyceria maxima	4.78	1.86	0.75	3.00		III
Gratiola officinalis	3.22					I
Hydrocharis morsus-ranae	1.44	0.01	7.71	0.10		IV
Iris pseudacorus	3.89					I
Juncus tenuis		0.01				I
Lemna minor	9.23	1.05	0.04			III
Lemna trisulca	24.44					I
Lycopus exaltatus				0.10		I
Lysimachia nummularia	0.33					I
Lysimachia vulgaris	1.00		0.01			I
Lythrum virgatum	0.06		0.01			I

Marsilea quadrifolia		9.29	12.50			II
Mentha aquatica		0.43		1.00		I
Mentha arvensis	0.17					I
Myosotis palustris		1.43		1.00		I
Myriophyllum spicatum			0.12			I
Nuphar lutea		1.43	2.21			II
Nymphaea alba				0.10	2	I
Nymphoides peltata				10.00		I
Oenanthe aquatica	0.56					I
Phalaris arundinacea	4.67					I
Phragmites australis	0.11				+	I
Poa pratensis		0.14				I
Polygonatum lapathifolium		0.01	0.50			I
Ranunculus repens	1.22	0.14				I
Riccia fluitans	21.11					I
Rorippa austriaca			0.02			I
Rorippa islandica	1.34					I
Rorippa sylvestris		0.07				I
Rumex hydrolapathum			0.01			I
Sagittaria sagittifolia		0.71	0.70	0.10		II
Salix cinerea	3.89					I
Salvinia natans	16.89	0.14	0.26	5.00		III
Sium latifolium				5.00		I
Sparganium erectum	56.67	75.86	58.30	70.00	4	V
Spirodela polyrhiza	21.00	0.02	0.45			II
Stachys palustris	0.11	0.03				I
Stratiotes aloides	0.78					I
Symphytum officinale		0.43				I
Teucrium scoridum				3.00		I
Trapa natans		2.86	5.61			II
Tripleurospermum inodorum		0.01				I
Typha angustifolia			0.01		1	I
Typha latifolia				3.00		I
Utricularia vulgaris			0.51			I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Lake Bereg			
Navat-streamlet, Csaroda	4 (%)	July 2003	János Nagy, Dániel Cserhalmi (unpublished)
Lake Bence, Csaroda	5 (%)	June 1999	János Nagy (Nagy, 2002)
Tisza from the north-eastern border to Tokaj			
Tisza-oxbow of Rózsás-dűlő, Mezőladány	4 (%)	June 2004	András Balázs Lukács (unpublished)
Pallagcsa-meadow, Pácin	2 (%)	June 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Channel, Szenna-tanya	1 (%)	June 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Bodrog			
Ó bodrog-oxbow, Sárospatak	2 (%)	June 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Ó bodrog-oxbow, Sárospatak	1 (%)	June 2004	Zoltán Tuba (in Szirmai et al., 2006)
Viss-oxbow, Viss	5 (%)	October 2005	Zoltán Tuba et al. (in Szirmai et al., 2006)
Kengyel-oxbow, Bodroghalász	2 (%)	July 2003	Zoltán Tuba (in Szirmai et al., 2006)
Tisza from Szolnok to the southern border			
Tiszaalpár-oxbow, Tiszaalpár	1 (%)	August 1982	György Bodrogközy (Bodrogközy, 1982)
Tiszaalpár-oxbow, Tiszaalpár	1 (AD)	October 1962	György Bodrogközy (Bodrogközy, 1965)

VI.2 *Alismato-Eleocharicetum*

number of relevés 1	**coverage (%)**
Alisma lanceolatum	5
Bidens tripartitus	0.1
Bolboschoenus maritimus	5
Carex gracilis	5
Eleocharis palustris	75
Rorippa amphibia	2
Sagittaria sagittifolia	1
Salvinia natans	5

locality of the stand	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Ányási Holt-Tisza, Hódmezővásárhely, Mártély Landscape Protection Area	1 (%)	October 2006	József Áron Deák

VI.3 *Oenantho aquaticae-Rorippetum amphibiae*

number of relevés: 1	**coverage (%)**
LK1	
Alisma lanceolatum	2
Bidens tripartitus	2
Bolboschoenus maritimus	5
Carex gracilis	10
Oenanthe aquatica	40
Polygonum lapathifolium	5
Rorippa amphibia	10
Sagittaria sagittifolia	1

locality of the stand	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Külső-Nagy-Gombás, Csongrád	1 (%)	August 2003	József Áron Deák

VI.4 *Butomo-Alismatetum lanceolati*

number of stands: 3	Butomo-Alismatetum lanceolati		Butomo-Alismatetum lanceolati alismatetosum		Butomo-Alismatetum lanceolati bolboschoenetosum	
number of relevés: 9 (%)	**K**	**average cover (%)**	**K**	**average cover (%)**	**K**	**average cover (%)**
Alisma lanceolatum	I	1	III	47	II	30
Bolboschoenus maritimus	I	10	I	7.4	III	60
Butomus umbellatus	V	80	I	1.6		
Cirsium arvense			I	0.5	I	0.1
Cirsium palustre			I	0.1		
Daucus carota					I	0.1
Eleocharis palustris	I	1				
Epilobium hirsutum					I	0.1
Inula britannica			I	0.05		
Lycopus europaeus			I	0.02		
Lysimachia vulgaris	I	0.1				
Lythrum salicaria	I	0.1				
Oenanthe aquatica			I	2.5		
Phalaroides arundinacea			I	0.1		
Plantago media			I	0.2		
Polygonum lapathifolium			I	1.4	I	0.1
Rumex crispus			I	0.02		
Sagittaria sagittifolia	I	2				
Sparganium erectum	I	1	I	2.5		
Stachys palustris			I	0.05		
Xanthium italicum			I	7.5		
Setaria pumila			I	0.02		

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Belső-Nagy-Gombás, Csongrád	3 (%)	June 2000	József Áron Deák (unpublished)
Szandaszőlős	3 (%)	June 2004	József Áron Deák (unpublished)
Hódmezővásárhely, Vajhát	3 (%)	June 2001	József Áron Deák (unpublished)

VII.1 *Carici vulpinae – Alopecuretum pratensis*

total number of the stands: 73	**north-eastern border - Tokaj**	**north-eastern border - Tokaj**	**Tokaj-Szolnok**	**Tokaj-Szolnok**	**Szolnok - southern border**	**Szolnok - southern border**	**Hármas-Körös**	**Maros**	**Maros**	
number of the relevés: 99 (AD) + 90 (%) = 189	**average cover (%)**	**range of the AD values**	**average cover (%)**	**range of the AD values**	**average cover (%)**	**range of the AD values**	**average cover (%)**	**average cover (%)**	**range of the AD values**	**K**
Achillea collina	0.34		0.13	+-2			0.002			I
Achillea millefolium	0.001	+		+-1		+			+-1	I
Achillea millefolium ssp. collina				+						I
Achillea pannonica								0.01		I
Achillea setacea	1.18									I
Aegopodium podagraria		+								I
Agrimonia eupatoria	0.11			+						I
Agrostis alba	0.11	+-3		+-3		+-3		5.19	2-3	II
Agrostis canina	0.36									I
Ajuga reptans		+-2								I
Alisma plantago-aquatica				+-2	0.01	+-2		0.00		I
Alliaria petiolata		+								I
Allium angulosum				+-2						I
Allium scorodoprasum								0.01		I
Allium vineale										I
Alopecurus geniculatus				+-1		4				I
Alopecurus pratensis	76.14	1-4	41.88	1-4	35.83	2-4	45.83	18.84	1-4	V
Althaea officinalis		+		+	0.18	+	0.34	0.03	+	II
Amorpha fruticosa				+		+	0.002	0.01		I
Anagallis arvensis								0.01	+-1	I
Anagallis femina									+-1	I
Anthoxanthum odoratum		2								I
Aracimospermum canum									+	I
Arctium lappa		+		+				0.01		I
Aristolochia clematitis		+		+-1		+	0.34		+-2	I
Arrhenatherium elatius				1				3.84		I
Artemisia absinthium				1						I

Artemisia sp.				+						I
Asparagus officinalis		+		+			0.003			I
Aster sedifolius ssp.sedifolius			0.06							I
Atriplex littoralis					0.01					I
Ballota nigra								0.003		I
Beckmannia eruciformis	0.11			1						I
Bidens tripartitus	0.001	1	0.63	2	0.22	+				I
Bolboschoenus maritimus				+-3	0.28	+-2			2-3	I
Bromus commutatus				+-3				0.003		I
Bromus imermis									+	I
Bromus mollis		+	0.63					0.01		I
Bromus sp.		1								I
Bromus squarrosus								2.44		I
Buglossoides arvensis									+-1	I
Bupleurum commutatum					1.56					I
Butomus umbellatus				+		+				I
Calamagrostis canescens	0.02									I
Calamagrostis epigeios	0.11			+-2				0.003	2	I
Calepina irregularis									+	I
Caltha palustris	0.04									I
Calystegia sepium	0.001			+		+-2				I
Campanula patula	0.001									I
Capsella bursa-pastoris		+						0.01	+-3	I
Cardaria draba									+-2	I
Carduus acanthoides	0.11									I
Carex riparia	0.50									I
Carex distans			28.25	+						I
Carex gracilis		+		+-3	1.06	+-2				I
Carex hirta	1.07	2		+-3	0.18	+-1	0.17	4.04		II
Carex melanostachya		1-2		+-3	3.67	1-4	5.33	0.17	+-2	III
Carex praecox	0.43	+-1	15.25	1-2	0.28	+-4	3.83	0.003	1-2	II
Carex sp.				+-2	0.01				1	I
Carex spicata								0.003		I
Carex stenophylla								5.84		I
Carex vulpina	0.001	+		+-2	0.17			0.83	+-2	II
Caucalis lappula									+	I
Centaurea jacea	0.36							0.17		I

Centaurea pannonica	0.11	1	0.06	+-1	0.01	+-1	0.17			I
Centaurea sp.					0.06					I
Centaurium erythrea	0.11					+			+	I
Centaurium pulchellum				+-1						I
Cerastium holosteoides		+				2				I
Cerastium vulgatum				+					+-3	I
Chaerophyllum bulbosum		1								I
Chaerophyllum sp.		1								I
Chenopodium polyspermum		1								I
Chenopodium urbicum				+						I
Cichorium intybus	0.04	+-1		+-2	0.57	+-2	0.002	0.01	+-1	I
Cicuta virosa	0.07									II
Cirsium arvense	1.39		0.13	+-1	0.28	+-2	0.50	4.30	+-2	I
Cirsium brachycephalum					0.01					I
Cirsium canum	0.82			+	0.28					I
Cirsium palustre				+	0.06					I
Cirsium sp.					0.01					I
Cirsium vulgare	0.04									I
Clematis integrifolia				+-2			1.67		+-2	I
Cnidium dubium				+						III
Convulvulus arvensis	0.20	+-1		+-2		+-1	0.34	0.06	+-2	I
Conyza canadensis	0.04			1				0.003	+-1	I
Coronilla varia									+	I
Crataegus monogyna						+				I
Crepis rhoeadifolia						+-2				I
Crepis setosa				1					+	I
Cuscuta epithymum				1-2	0.17					I
Cuscuta sp.		2		+-1	0.06	+-1				I
Cynodon dactylon			3.13			+-4		0.67		I
Dactylis glomerata	0.11								+-1	II
Daucus carota	0.68	+		+-2	0.17	+-2		0.24	+-1	I
Dipsacus laciniatus								0.14		I
Drepanocladus aduncus			12.50	1	1.11					I
Echinochloa crus-galli		1	0.06		0.03				1-2	I
Echinops sphaerocephalus									1	I
Eleocharis palustris			1.88	1-3	0.45	+-2	0.002			I
Elymus repens	0.001	1	0.25	+-2	0.72	+-4	0.67	11.44		II

Epilobium parviflorum	0.001			+-1						I
Epilobium tetragonum									+	I
Equisetum arvense	0.11	+		+-2		+-1		0.10	1-2	I
Erigeron annuus		+		+-2				0.003	+-1	I
Erigeron strigosus				+-3						I
Erodium cicutarium									+-1	I
Eryngium campestre		+		+		+		0.07	+	I
Eryngium planum		+		+-2					+	I
Euphorbia palustris	0.04			+-1		+				I
Euphorbia esula					0.01			0.003		I
Euphorbia lucida		+			0.37	+-1	2.75		+-2	II
Euphorbia salicifolia							0.42			I
Euphorbia sp.	0.07									I
Euphorbia virgata	0.001	+		+	0.01	+	0.002			I
Fallopia convolvulus									+-1	I
Festuca pratensis				+-1				4.00		I
Festuca pseudovina	0.39		0.13	1-2		+				I
Filipendula ulmaria			0.50							I
Fragaria vesca	0.08	+		1						I
Fragaria viridis	1.83									I
Galega officinalis						+		0.23		I
Galium aparine									1-2	I
Galium mollugo	0.18	+		+					+-1	I
Galium palustre	0.04			+	0.06	+				I
Galium rubioides		+-2		+-3		+	0.002		+-2	II
Galium schultesii		+						0.003		I
Galium verum	2.77	+						15.41		I
Gentianella ciliata				1						I
Geranium dissectum								0.01		I
Geranium pusillum								0.03	+-2	I
Geum urbanum		+								I
Glechoma hederacea	0.21	+-1		+-1	0.12	+-1	0.33	0.25	+-2	II
Glycyrrhiza echinata				+-3	1.56	+-3	3.75		+-3	III
Gratiola officinalis	0.39	+	0.01	+-2	0.18	+-1	1.67	0.10	+-2	III
Gypsophila muralis				+-1	0.11	1				I
Helianthus annuus						+				I
Hieracium umbellatum	0.001								+-1	I

Hypericum perforatum	0.04									I
Hypericum sp.		+								I
Hypericum tetrapterum					0.01					I
Inula britannica	0.38	1	0.25	+-2	0.84	+-2		0.07	1-2	II
Inula salicina		+		+-1						I
Inula salicina x britannica				+-2						I
Iris pseudacorus	1.77	+		+-1	2.13	+	0.51	0.07	+-2	III
Juncus effusus	0.18									I
Juncus articulatus				+						I
Juncus atratus				+						I
Juncus compressus				+-1	0.02	+-1			+-2	II
Juncus inflexus				+						I
Kickxia elatine									+	I
Knautia arvensis	0.004				0.06				+	I
Lactuca saligna				+		+				I
Lamium album		+								I
Lamium amplexicaule									+-2	I
Lamium purpureum		+	0.25		1.00			0.003	+-1	II
Lathyrus hirsutus						+			+	I
Lathyrus palustris		1		+						I
Lathyrus pratensis		+		+-1					+-1	I
Lathyrus sativus			1.88							I
Lathyrus tuberosus	0.04			+-2-		+-1	0.002	1.09	+-1	I
Leontodon autumnalis		+		1	0.45					I
Leontodon hispidus		2		+-2						I
Leontodon hispidus ssp. danubialis				+						I
Leontodon sp.					0.06					I
Leonurus cardiaca				+						I
Leonurus marrubiastrum					0.01					I
Leonurus sp.					0.01					I
Leucanthemella serotina	0.001				0.01	+-1				I
Leucanthemum vulgare ssp. vulgare		+-2		+			0.002		+-1	II
Leucojum aestivum									+	I
Limonium gmelinii			0.03		0.11	2				I
Linaria kochianovichi	0.0004									I

Linaria vulgaris	0.005					1		0.01		I
Lolium perenne				1-2		+-2		0.003	+-2	I
Lotus corniculatus	0.0004	+		+-3		+-2	0.34	0.003	+-2	I
Lotus corniculatus ssp. tenuifolius						+				II
Lotus glaber		+	0.25	1	0.61	+-2				I
Lychnis flos-cuculi		+		+	0.01					I
Lycopus europeus	0.001			+-1		+				I
Lycopus exaltatus						+		0.01	+-1	I
Lysimachia nummularia	0.32	+-2		+-3	1.17	+-2	5.84	0.07	+-3	I
Lysimachia vulgaris	0.39	1		+	1.17	+	0.09			III
Lythrum salicaria	0.21				3.23	+-1			+-1	I
Lythrum virgatum	0.43	+-1	1.25	+-2	1.42	+-2	0.34	0.003	+-1	II
Marrubium vulgare	0.004									III
Medicago lupulina		+		+-2		+-1		0.003	+	I
Medicago minima	0.07									I
Medicago sativa		+		+-2						I
Melandrium album				+-1				0.003		I
Melilotus officinalis		+		+						I
Mentha aquatica					0.44	+				I
Mentha arvensis		1		+-1	0.51	+-1			+	II
Mentha longifolia									1	I
Mentha pulegium	0.07	+	0.75	1	0.61	+-2		0.07	+	II
Mentha sp.							0.003			I
Morus sp.								0.01		I
Myosotis arvensis									+-2	I
Myosotis hirsuta								0.003		I
Myosotis ramosissima								0.03		I
Odontites rubra	0.11			1						I
Oenanthe aquatica				+	0.01					I
Oenothera biennis		+				+				I
Ononis arvensis	0.36									I
Ononis spinosa	0.54					+				I
Onopordium acanthium				1						I
Orchis laxiflora ssp. palustris					0.01					I
Ornithogalum umbellatum		+						0.28	+-1	I
Oxalis sp.						+				I

Pastinaca sativa	0.25							0.01	+-1	I
Peucedanum palustre	0.001									I
Peucedanum officinale			0.25							I
Phalaris arundinacea	3.64			+-3	1.00	+-1	0.002	0.33		II
Phragmites australis	0.11					+			+-1	I
Picris hieracioides	0.04					3			+	I
Pimpinella saxifraga	0.04	+-1								I
Plantago lanceolata	0.001		0.06	+-1	0.07	+-2	0.09	0.01	+-1	II
Plantago major		1	0.01	+-2	0.11	+-2	0.34	0.01		II
Plantago media		+								I
Poa angustifolia	0.64	1-2	0.25	+-3	0.17	+-3		1.54		II
Poa bulbosa						1				I
Poa pratensis	2.21	1-2	9.63			+-2		0.003		I
Poa pratensis s.str.						+-2	6.50		+-2	I
Poa sp.				2						I
Poa trivialis		+-1		+-1	0.56	+-1	0.002			I
Polygonum mite	0.001			1						I
Polygonum amphibium		1		+-1	0.12	1				I
Polygonum aviculare	0.01	1			0.11			0.01		I
Polygonum lapathifolium		+				+	0.003		+	I
Polygonum minus									+	I
Polygonum sp.								0.01		I
Populus alba						+				I
Populus nigra						+		0.003		I
Potentilla anserina					1.67	+-1				I
Potentilla argentea				+				0.01		I
Potentilla inpolita	0.38									I
Potentilla reptans	1.75	+-2	1.25	+-3	9.00	+-3	1.84	0.003	+-3	IV
Potentilla supina						1				I
Prunella vulgaris	0.001	+-1		+-2	0.12	+		0.01	+	II
Prunus spinosa	0.87									I
Pseudolysimachion longifolium		+		+						I
Pulicaria vulgaris						+				I
Pulmonaria mollis		+								I
Pulmonaria officinalis		+								I
Quercus robur		+		+						I

Ranunculus flammula	0.001	+								I
Ranunculus acris	0.32	+-4						0.04		I
Ranunculus auricomus		+		+-1						I
Ranunculus bulbosus			0.01							I
Ranunculus polyanthemos		+		+			0.003	0.22		I
Ranunculus repens	0.62	+-3	0.75	+-3	1.28	+-2	6.00	0.50	+-2	I
Ranunculus sardous			0.01	+	0.07	+			+-2	IV
Rhinanthus angustifolius					0.01					II
Rorippa × armoracioides				1-2						I
Rorippa × astylis				+-1						I
Rorippa amphibia		+		+-1	0.01				+	I
Rorippa austriaca		+		+-1	0.01	+-2	3.84	0.02	+-1	I
Rorippa kerneri		+		+						I
Rorippa sp.							2.67			I
Rorippa sylvestris		+		+-2	0.01	+-1	1.17		+-3	I
Rosa canina								0.003		II
Rubus caesius	0.18	+		+		+	0.002	0.07		I
Rumex acetosa	0.001	+-1		+-1						I
Rumex confertus				1						I
Rumex conglomeratus				1					+	I
Rumex crispus		+-1		+-2	0.06	+-3	1.17	0.01	+	I
Rumex hydrolapathum				+-1						II
Rumex obtusifolius									+-1	I
Rumex patientia		+		+-1						I
Rumex sp.					0.11					I
Rumex stenophyllus			0.01	1						I
Salix fragilis	1.82									I
Salix alba		+		+						I
Salix cinerea				+						I
Scabiosa ochroleuca				1						I
Scorzonera cana				1		+				I
Scutellaria galericulata	0.001	+		+	0.01	+				I
Scutellaria hastifolia	0.004			+	0.17		0.84		+-2	I
Senecio doria									+-1	I
Senecio erraticus ssp. barbareifolius	0.0004	+		+						I
Senecio jacobiensis			0.88	+-2						I

Senecio rivularis						+				I
Senecio sp.				1						I
Serrulata tinctoria				+						I
Setaria pumila	0.04	2		1-2	0.12	+		0.003	+	I
Setaria viridis									+	I
Silene multiflora				+						I
Sium latifolium				+		+				I
Sonchus arvensis		1		1		1-3				I
Sonchus asper									+	I
Sparganium erectum				+						I
Stachys palustris	0.01	+		+		+		0.04		I
Stellaria graminea							0.002			I
Stellaria media		+								I
Stenactis sp.		+								I
Symphytum officinale	0.20	+-1		+-2	0.91	+-2	2.01	0.003	+-1	III
Tanacetum vulgare	2.63	+-1		+-1	0.01	+	0.002	0.003	+	II
Taraxacum officinale	0.04	+-2		+-3	0.46	+-2	2.00	0.11	+-3	III
Teucrium scordium				+	0.01	+		0.03		I
Thalictrum flavum		+		+-1	0.01	+-1				I
Thalictrum lucidum		+		+-1	0.50	+-1	0.59	0.003	+-2	II
Torilis arvensis						+				I
Torilis japonica								0.003		I
Tragopogon crantzii				+-1						I
Tragopogon dubius		1		+-2						I
Tragopogon dubius ssp. major									+	I
Tragopogon dubius×orintalis		1								I
Tragopogon orientalis		1-2		+-2						I
Trifolium arvense				+-1						I
Trifolium campestre		+		+-1		+		0.003	1-2	I
Trifolium dubium					0.17					I
Trifolium fragiferum				1	0.39	+-2				I
Trifolium hybridum	0.001	+-1	0.13	+-2	0.06	+-2			+	I
Trifolium montanum		+								I
Trifolium pratense	0.02	+-3		+-4	0.11	+-2			+-1	II
Trifolium repens	0.36	+-3	0.13	+-3	1.12	+-3	1.75		+-2	III
Tripleurospermum inodorum	0.07		0.03	+-2	0.01	+-1		0.003		I
Typha angustifolia						+-1				I

Typha latifolia				+-1						I
Urtica dioica	0.02	+								I
Valeriana officinalis		+								I
Valerianella locusta								0.01	+-2	I
Valerianella sp.		+								I
Verbascum blattarum						+				I
Verbascum nigrum								0.01		I
Verbena officinalis								0.04	+-1	I
Veronica chamaedrys	0.001	+-1								I
Veronica scutellata	0.001									I
Veronica anagalloides									+	I
Veronica polita		+								I
Veronica serpyllifolia		+		+						I
Veronica triphyllos	0.21								+-2	I
Vicia angustifolia				+-1	0.01	1-2			+-1	I
Vicia cracca	0.04	1		+-2	0.24	+-1	1.00		+-1	II
Vicia grandiflora								2.07		I
Vicia grandifolia var. sordia									+-1	I
Vicia hirsuta			0.50				0.17	3.34	+-2	I
Vicia lathyroides				1	0.01	+				I
Vicia sativa								1.94		I
Vicia sepium	0.07	+								I
Vicia sp.					0.01		0.09			I
Vicia tetrasperma		+				+				I
Viola elatior	0.001	+							+-1	I
Viola arvensis	0.50							0.003		I
Viola hirta		+								I
Viola pumila					0.06		0.67			I
Viola riviniana		+								I
Viola stagnina				+-1						I
Viola sylvestris		+								I
Viola tricolor		+								I
Xanthium italicum				1	0.12			0.02		I
Xanthium strumarium						+				I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Bábtava, Csaroda	1 (%)	1999	János Nagy, Márta Selényi (Nagy, 2002)
Lake Nyíres, Csaroda	4 (%)	1999	János Nagy, Márta Selényi (Nagy, 2002)
Bereg, Csaroda	5 (%)	June 1998	János Nagy (Nagy, 2002)
Bereg, Csaroda	8 (%)	July 2000	János Nagy (Nagy, 2002)
near by Cigánd	6 (%)	July 2006	Zoltán Tuba et al. (Gál et al., 2006)
Cigánd-Pácin	4 (%)	October 2006	Zoltán Tuba et al. (Gál et al., 2006)
Kisar	1 (AD)	May 1958	György Bodrogközy (unpublished)
Vásárosnamény	1 (AD)	July 1966	György Bodrogközy (unpublished)
Vásárosnamény	1 (AD)	May 1958	György Bodrogközy (unpublished)
Tiszaadony-Tiszakerecsend	1 (AD)	July 1966	György Bodrogközy (unpublished)
Tímár	2 (AD)	June 1959	György Bodrogközy (unpublished)
Rakamaz	1 (AD)	June 1981	György Bodrogközy (unpublished)
Tisza from Tokaj to Szolnok			
Csikólegelő, Sarud	1 (%)	August 1971	György Bodrogközy (unpublished)
Cserőköz	1 (%)	August 1970	György Bodrogközy (unpublished)
Jászapáti	4 (%)	June 2003	János Nagy (unpublished)
Jásztelek	2 (%)	May 1999	János Nagy (unpublished)
surrounding of Tokaj	27 (AD)	1962	György Bodrogközy, (Bodrogközy, 1962)
Tiszalök	2 (AD)	June 1959	György Bodrogközy (unpublished)
Taktabáj	2 (AD)	June 1959	György Bodrogközy (unpublished)
Taktakenéz	1 (AD)	June 1959	György Bodrogközy (unpublished)
opposite with Tiszakeszi on the left-side of Tisza	2 (AD)	1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Tiszabábolna	1 (AD)	1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Tiszafüred	10 (AD)	June 1964	György Bodrogközy (unpublished)
Sarud	1 (AD)	Autumn 1969	György Bodrogközy (unpublished)
Sarud	1 (AD)	July 1970	György Bodrogközy (unpublished)
Cserőköz	1 (AD)	August 1971	György Bodrogközy (unpublished)
Abádszalók	1 (AD)	July 1971	György Bodrogközy (unpublished)
Tisza from Szolnok to the southern border			
Tőserdő	1 (%)	May 1983	György Bodrogközy (unpublished)
Tőserdő	2 (%)	August 1982	György Bodrogközy (unpublished)
Tiszaalpár	1 (%)	May 1980	György Bodrogközy (unpublished)
Tiszaalpár	1 (%)	June 1983	György Bodrogközy (unpublished)
Bokros	1 (%)	May 1980	György Bodrogközy (unpublished)

Bokros felső	1 (%)	May 1981	György Bodrogközy (unpublished)
Nagy-legelő, Bokros	1 (%)	August 1982	György Bodrogközy (unpublished)
Bokros	1 (%)	August 1982	György Bodrogközy (unpublished)
Körtvélyes	3 (%)	September 1978	György Bodrogközy (unpublished)
Körtvélyes	1 (%)	June 1979	György Bodrogközy (unpublished)
Körtvélyes	2 (%)	July 1979	György Bodrogközy (unpublished)
Körtvélyes	2 (%)	September 1979	György Bodrogközy (unpublished)
Körtvélyes	1 (%)	June 1980	György Bodrogközy (unpublished)
Közép-Tisza meadows	3 (AD)	May 1959	György Bodrogközy (1961)
Vezseny	1 (AD)	July 1958	György Bodrogközy (1961)
Nagyrév	1 (AD)	April 1958	György Bodrogközy (1961)
Nagyrév	2 (AD)	July 1958	György Bodrogközy (1961)
Tiszaug	4 (AD)	July 1958	György Bodrogközy (1961)
Tiszaalpár	6 (AD)	June 1963	György Bodrogközy (1961)
Bokros	2 (AD)	June 1963	György Bodrogközy (1961)
Mártély	4 (AD)	June 1963	György Bodrogközy (1961)
Hármas-Körös			
between Álomzug és Öcsöd bridge	1 (%)	1996	Tóth et al.(1996)
Álomzug	1 (%)	1996	Tóth et al.(1996)
Belső-Tehenes	1 (%)	1996	Tóth et al.(1996)
Őzén-zug	1 (%)	1996	Tóth et al.(1996)
west from Gyügér-zug-oxbow	1 (%)	1996	Tóth et al.(1996)
more west from Gyügér-zug-oxbow	1 (%)	1996	Tóth et al.(1996)
Maros			
Bezdin	3 (%)	July 2000	Katalin Margóczi (unpublished)
Semlac	3 (%)	July 2000	Katalin Margóczi (unpublished)
Makó	24 (%)	May 2001	Orsolya Makra (Makra, 2002)
Apátfalva	1 (AD)	May 1964	Mária Tóth (Tóth, 1967)
Apátfalva	1 (AD)	May 1965	Mária Tóth (Tóth, 1967)
Makó	1 (AD)	May 1964	Mária Tóth (Tóth, 1967)
Makó	1 (AD)	May 1965	Mária Tóth (Tóth, 1967)
Makó-csipkés	1 (AD)	September 1964	Mária Tóth (Tóth, 1967)
Kiszombor töltésalja	1 (AD)	August 1965	Mária Tóth (Tóth, 1967)
Ferencszállás pasture	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)
Ferencszállás clearing	1 (AD)	June 1965	Mária Tóth (Tóth, 1967)
Maroslele	2 (AD)	May 1964	Mária Tóth (Tóth, 1967)
Maroslele pasture	1 (AD)	June 1964	Mária Tóth (Tóth, 1967)

Tápérét	1 (AD)	June 1965	Mária Tóth (Tóth, 1967)
Tápérét töltésalja	2 (AD)	August 1965	Mária Tóth (Tóth, 1967)
Tápérét töltésalja	2 (AD)	July 1965	Mária Tóth (Tóth, 1967)
Tápérét füzes	1 (AD)	July 1965	Mária Tóth (Tóth, 1967)
Tápérét	1 (AD)	April 1965	Mária Tóth (Tóth, 1967)
Tápérét	2 (AD)	May 1965	Mária Tóth (Tóth, 1967)

IX.2. *Polygono hydropiperi-Salicetum triandrae*

total number of the stands: 60	lower-Tisza		middle-Tisza		Polgár-Tokaj section		upper-Tisza		Szamos		Körös	Maros		
number of the coenological relevés: 103 (AD)	K	range of the AD values	K	range of the AD values	K	range of the AD values	K	range of the AD values	K	range of the AD values	range of the AD values	K	range of the AD values	overall K
canopy layer														
Acer negundo												I	+	**I**
Fraxinus excelsior			I	+								I	+	**I**
Fraxinus sp.											1			**I**
Populus alba	II	1-2	III	1-2	I	1-3	I	1-2	II	+-2		II	+-1	**II**
Populus nigra	IV	+-1	IV	+-4	I	1	III	+-5	II	+-3		II	+-2	**III**
Robinia pseudoacacia												I	+-2	**I**
Salix alba	I	1-2	I	1	I	1-2	III	+-2			2	II	+	**II**
Salix eleagnos							I	4						**I**
Salix fragilis					I	1			II	+	1			**I**
Salix purpurea					I									
Salix triandra	V	2-5	IV	1-5	III	1-4	IV	1-5	V	+-5	3-4	V	3-5	**V**
Salix viminalis			I	1-4	II	1-4	II	1-4	IV	+-1	1			**I**
Ulmus minor												I	+	**I**
Ulmus glabra	II	+	I	3										**I**
shrub layer														
Amorpha fruticosa	I	+	II	+-1			I	+	IV	+-2	1	III	+-2	**II**
Populus alba			I	3										**II**
herbaceous layer														
Acer negundo			I	+										**I**
Achillea millefolium					I	1					+	I	+	**I**
Agrimonia eupatoria			I	+										**I**
Agrostis stolonifera	IV	+-3	IV	+-2			II	+-2			1	III	+-2	**III**
Alisma lanceolatum					I									
Alisma plantago-aquatica			I	+										**I**
Alliaria petiolata											+			**I**
Allium cepa	I	+												**I**
Alopecurus pratensis	I	+	I	+	I	1			II	+				**I**
Althaea officinalis			I	+					II	+				**I**
Amaranthus albus			II	+	I	1						I	+	**I**

Amaranthus crispus			I	+	I	1								**I**
Amaranthus retroflexus	I	+	I	+	I							I	+	**I**
Amarantus deflexus			I	+										**I**
Ambrosia artemisifolia											+			**I**
Andropogon ischaenum					I									
Angelica sylvestris							I	+						**I**
Anthemis arvensis											+			**I**
Arctum lappa	I	+	I	+								I	+	**I**
Aristolochia clematitis			II	+					II	+		I	+	**I**
Armoracia macrocarpa	I	+	I	+										**I**
Arrhenatherium elatius											1			**I**
Artemisia absinthium					II	1-2	II	+						**I**
Artemisia annua							I	+				I	+	**I**
Artemisia scoparia					I	1								
Artemisia vulgaris			I	+	II	1-2	III	+				III	+-1	**II**
Aster amellus	I	+												**I**
Atriplex hastata	IV	+	II	+								I	+-1	**II**
Atriplex oblongifolia												I	+	**I**
Atriplex patula												I	+	**I**
Atriplex sagittata	I	+										II	+	**I**
Atriplex tatarica	I	+	I	+										**I**
Avena sativa			I	+										**I**
Bidens cernuus			I	+								I	+	**I**
Bidens tripartitus	V	+-3	IV	+-2	IV	1-2	IV	+-1	IV	+-1		V	+-3	**V**
Bolboschoenus maritimus	II	+							II	2		I	+	**I**
Bromus sterilis	I	+												**I**
Bryum argenteum							II	+-1						**I**
Butomus umbellatus	I	+												**I**
Calamagrostis epigeios			II	+-1								III	+-2	**I**
Calystegia sepium	IV	+-1	III	+-1	I	1	II	+-2	II	+	+	IV	+-3	**III**
Capsella bursa-pastoris					II	1								
Carduus acanthoides			I	+							+			**I**
Carex acutiformis							I	+	II	1				**I**
Carex brizoides			I	+					II	3				**I**
Carex distans			I	+-1										**I**
Carex hirta	I	+										I	+	**I**
Centaurium pulchellum					I									

Cerastium dubium			I	+										**I**
Chenopodium album	II	+	II	+	II	1-2					+	I	+	**II**
Chenopodium botrys							I	+						**I**
Chenopodium ficifolium												I	+	**I**
Chenopodium glaucum			II	+	II	1						I	+	**I**
Chenopodium murale	I	+	I	+	I	1								**I**
Chenopodium polyspermum					I							I	+	**I**
Chenopodium rubrum	I	+										I	+-1	**I**
Chenopodium urbicum	III	+-1	II	+-2	III	1-2								**II**
Chenopodium vulvaria			I	+										**I**
Cichorium intybus	I	+	I	1								I	+	**I**
Cirsium arvense	II	+	II	+	I		I	+	II	+		I	+	**II**
Citrullus lanatus	I	+												**I**
Convolvulus arvensis	I	+	III	+-2	I	1-2					+-1			**I**
Conyza canadensis	II	+	II	+	IV	1-3	III	+				III	+-1	**II**
Crepis setosa			I	+	I									**I**
Crepis tectorum					I	1								
Cucubalus baccifer							I	+				I	+	**I**
Cucurbita pepo	I	+	I	+										**I**
Cuscuta lupuliformis	I	+-3										I	+	**I**
Cynodon dactylon			I	+-1	II	1						I	+	**I**
Cyperus fuscus	I	+-1	I	+	III	1	II	+				II	+-2	**I**
Cyperus glomeratus	I	+	I	+-2								III	+-1	**I**
Cyperus michelianus	III	+-2	II	+-1								I	+	**II**
Daucus carota					I	1	II	+				I	+	**I**
Digitaria sanguinalis					III	1-2								
Diplotaxis muralis					I	1								
Diplotaxis tenuifolia												I	+	**I**
Echinochloa crus-galli	IV	+-2	III	+-1	IV	1-3	III	+-1	II	1		III	+-2	**III**
Echinocystis lobata							III	+-2			+	I	2	**I**
Eleocharis acicularis	I	+	I	+										**I**
Eleocharis palustris	I	+	I	+										**I**
Elymus repens	I	+	III	+-2	I	1-2	IV	+-2	II	2		I	+	**II**
Elysimum cheiranthoides					I	1								
Epilobium hirsutum					I	1								
Epilobium tetragonum	I	+			I							II	+	**I**
Equisetum arvense	II	+-1	I	+	I		II	+-3				I	+	**I**

Equisetum fluviatile					I	1			IV	+				**I**
Equisetum ramosissimum							II	+						**I**
Eragrostis minor					I									
Eragrostis pilosa					I		I	+				I	+	**I**
Erigeron annuus ssp. strigosus	I	+	I	+			I	+				IV	+-1	**II**
Eupatorium cannabinum	I	+												**I**
Euphorbia lucida			I	+										**I**
Festuca pratensis	I	+												**I**
Galinsoga parviflora					I		I	+				I	+	**I**
Galium aparine												I	+-1	**I**
Galium palustre	I	+	I	+			II	+	II	+				**I**
Galium rubioides											+			**I**
Glechoma hederacea			I	1										**I**
Glycyrrhiza ecinata	I	+	III	+-1										**I**
Gnaphalium uliginosum	III	+-1	III	+-2	V	1						II	+	**II**
Gratiola officinalis	I	+	I	+										**I**
Gypsophila muralis					II	1			II	+				**I**
Heleochloa alopecuroidis	II	+-1	II	+-2	I	1								**I**
Heleochloa schoenoides	I	+			I	1								**I**
Helianthus annuus			I	+										**I**
Herniaria glabra					I	1-2								
Humulus lupulus											0.5	I	1-2	**I**
Iris pseudacorus									II	+				**I**
Juncus articulatus	II	+	I	+	II	1						I	+-2	**I**
Juncus bufonius	I	+	I	+	I	1						I	+	**I**
Juncus compressus	II	+-1	II	+								I	+-1	**II**
Juncus effusus	I	+	II	+										**I**
Juncus geraldii					I									
Juncus glaucus	I	+										I	+-1	**I**
Lactuca serriola	I	+										I	+-1	**I**
Lamium amplexicaule			I	+										**I**
Lathyrus palustre			I	+										**I**
Lathyrus pratensis					I									
Lathyrus tuberosus			I	+								I	+	**I**
Leontodon autumnale					I									
Lepidium draba	I	+												**I**
Lepidium ruderale					I									

Limosella aquatica	I	+	I	+										**I**
Linaria vulgaris					I									
Lindernia procumbens			I	+										**I**
Lolium perenne	I	+	I	+										**I**
Lotus corniculatus			I	+										**I**
Lotus glaber					I									
Lycopersicon esculentum	I	+												**I**
Lycopus europaeus	IV	+	II	+			IV	+-1	IV	+		IV	+-1	**III**
Lycopus exaltatus	II	+	II	+-1	I							I	+	**II**
Lysimachia nummularia							I	+						**I**
Lysimachia vulgaris	I	+	II	+					II	+	+			**I**
Lythrum hyssopifolia					I	1								
Lythrum salicaria	II	+	II	+	I	1					+	I	+-1	**I**
Lythrum tribacteatum	I	+	I	+										**I**
Lythrum virgatum	II	+	II	+-1	I	1								**I**
Medicago lupulina							I	+						**I**
Melilotus albus											+			**I**
Mentha aquatica	I	+			I	1						II	+-1	**I**
Mentha arvensis	IV	+	II	+			II	+-1			+	I	+	**II**
Mentha longifolia					I						+	I	+	**I**
Mentha pulegium	I	+	I	+	I	1						I	+-1	**I**
Microrrhinum minus					I	1								
Morus nigra			I	+										**I**
Myosotis palustris	I	+	I	+										**I**
Myosoton aquaticum							I	+				I	+-1	**I**
Oenanthe aquatica	I	+	II	+								I	+	**I**
Oenothera biennis	II	+	II	+	II	1						I	+	**II**
Oxalis stricta	I	1			I	1								**I**
Panicum miliaceum	I	+												**I**
Pastinaca sativa												I	+	**I**
Persicaria amphibia	I	+	II	+-3					IV	+		I	+	**I**
Persicaria hydropiper	I	2										III	+-1	**I**
Persicaria lapathifolia	IV	+-2	II	+	V	1-5	III	+-1			+	III	+-2	**III**
Persicaria maculosa			I	+							1			**I**
Persicaria minor												II	+-1	**I**
Phalaris arundinacea	I	+	II	+-1								II	+-1	**I**
Phragmites australis	II	+	III	+-1					IV	+-5		III	+-2	**II**

Physcomitrella patens							II	3						**I**
Plantago lanceolata	I	+	I	+							+			**I**
Plantago major	IV	+-1	III	+-1	IV	1	II	+				II	+	**III**
Poa annua					I									
Poa compressa	I	+					II	+						**I**
Poa palustris							II	+						**I**
Poa pratensis	I	+	I	+					II	+				**I**
Poa trivialis	I	+					I	+				I	+-2	**I**
Polygonum aviculare	I	+	I	+	III	1	II	+				I	+	**I**
Portulaca oleracea	I	+	I	+	I	1-2	I	+				I	+	**I**
Potentilla anserina			II	+	I	1			II	+				**I**
Potentilla reptans	I	2	I	+	I		I	+	II	+				**I**
Potentilla supina	IV	+-1	II	+	IV	1-2	III	+				IV	+	**III**
Prunella vulgaris			I	+										**I**
Pseudolysimachion longifolium	I	+												**I**
Pulicaria vulgaris			I	+	II	1-2						I	+	**I**
Ranunculus arvensis			I	+										**I**
Ranunculus repens	II	+-1	I	+	I	1	I	+						**I**
Ranunculus sardous			I	+								I	+	**I**
Ranunculus sceleratus	III	+	II	+	I	1						II	+-1	**II**
Robinia pseudo-acacia							II	+						**I**
Rorippa amphibia	I	+	I	+								II	+	**I**
Rorippa anceps	I	+	II	+										**I**
Rorippa armoracioides					II	1								
Rorippa austriaca	II	+	III	+-1	I	1								**II**
Rorippa barbaraeoides					I	1								
Rorippa islandica					I	1						I	+	**I**
Rorippa sylvestris	V	+	III	+-2	III	1	III	+				I	+	**III**
Rubus caesius	III	+-1	III	+-1	I		II	+-5	IV	+-2	+-2	IV	+-3	**III**
Rumex conglomeratus	III	+-1	II	+-1	I		I	+			+	I	+	**II**
Rumex crispus	I	1	II	+-1							+	I	+	**I**
Rumex palustris	II	+	II	+-1										**I**
Rumex patientia			I	+										**I**
Rumex sanguineus							II	+-1						**I**
Rumex sp.	I	+												**I**
Rumex stenophyllus					I	1								
Sagina procumbens												I	+	**I**

Salix alba							II	+	II	+				**I**
Salix purpurea			I	+										**I**
Salix triandra							I	+						**I**
Salsola kali	I	+												**I**
Sambucus ebulus												I	+-1	**I**
Scrophularia nodosa	I	+												**I**
Scrophularia umbrosa												I	+	**I**
Scutellaria galericulata	I	+	I	+			II	+				III	+-2	**II**
Scutellaria sp.	I	+												**I**
Senecio vulgaris			I	+										**I**
Setaria glauca					I	1	I	+				I	+	**I**
Setaria viridis	I	+										I	+	**I**
Solanum dulcamara	II	+	II	+			II	1			+	III	+-1	**II**
Solanum nigrum			I	+	I		I	+				I	+	**I**
Solidago gigantea ssp. serotina	I	+					I	+						**I**
Sonchus arvensis	I	+	I	+-1	II	1	I	+				I	+	**I**
Sonchus asper	I	+	I	+			II	+				I	+	**I**
Sonchus oleraceus												I	+	**I**
Spergularia rubra					I	1								
Stachys palustris	II	+	I	+								I	+	**I**
Stellaria media			I	+								II	+-1	**I**
Stenactis annua							I	1						**I**
Symphytum officinale			I	+							+	I	+	**I**
Tanacetum vulgare	II	+	II	+	III	1	II	+			+	II	+	**II**
Taraxacum officinale	II	+	II	+	II	1	II	+				I	+	**II**
Teucrium scordium	I	+												**I**
Thalictrum flavum			I	+										**I**
Thalictrum lucidum			I	+					II	+				**I**
Trifolium repens			I	+										**I**
Tripleurospermum inodorum	II	+	III	+	III	1	I	+				I	+	**II**
Triticum vulgare	I	+												**I**
Tussilago farfara	I	+	I	1								I	+	**I**
Typha angustifolia			I	+										**I**
Typha latifolia	I	+	I	+								I	+	**I**
Urtica dioica	I	+	I	+			I	+						**I**
Valerianella locusta			I	+										**I**
Verbascum blattaria			I	+										**I**

Verbascum lychnitis					I									
Verbena officinalis			I	+	I	1						I	+	**I**
Verbena supina			I	+								I	+	**I**
Veronica anagallis-aquatica	II	+	I	+	I	1						I	+	**I**
Veronica anagalloides					I	1	I	+				I	+	**I**
Veronica beccabunga			I	+								II	+-1	**I**
Vicia angustifolia			I	+										**I**
Vicia cracca			I	+			I	+	II	+	+	II	+-2	**II**
Xanthium italicum	II	+										II	+-1	**I**
Xanthium spinosum	I	+												**I**
Xanthium strumarium	II	+	II	+-1			I	+	II	+-5				**I**
Xanthium strumarium+italicum											+			**I**
Zea mays	I	+												**I**

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
lower-Tisza			
from Szeged to the southern border	1 (AD)	June 1960	György Bodrogközy (unpublished)
Tápé	1 (AD)	August 1943	Lajos Timár (Timár 1950/a)
Tápé	2 (AD)	June 1946	Lajos Timár (Timár 1950/a)
Szeged	3(AD)	May 1946	Lajos Timár (Timár 1950/a)
Szeged	1 (AD)	June 1946	Lajos Timár (Timár 1950/a)
Tiszaug	1 (AD)	July 1944	Lajos Timár (Timár 1950/a)
Tiszaug	1 (AD)	July 1958	György Bodrogközy (unpublished)
Nagyrév	3 (AD)	July 1944	Lajos Timár (Timár 1950/a)
middle-Tisza			
Tiszaföldvár	2 (AD)	July 1944	Lajos Timár (Timár 1950/a)
Tiszavezseny	2 (AD)	August 1944	Lajos Timár (Timár 1950/a)
Tiszavárkony	1 (AD)	July 1944	Lajos Timár (Timár 1950/a)
Tószeg	1 (AD)	June 1944	Lajos Timár (Timár 1950/a)
Szolnok	6 (AD)	June 1944	Lajos Timár (Timár 1950/a)
Szolnok	2 (AD)	May 1944	Lajos Timár (Timár 1950/a)
Szolnok	3 (AD)	July 1944	Lajos Timár (Timár 1950/a)
from Polgár to Tokaj	25 (AD)	1935	Miklós Újvárosi (Újvárosi 1940)
Taktabáj	1 (AD)	June 1959	György Bodrogközy (unpublished)
upper-Tisza			
Tímár	1(AD)	June 1959	György Bodrogközy (unpublished)

Tiszaszalka	2(AD)	August 1953	Tibor Simon (Simon 1957)
Bag (Gergelyiugornya:Bagiszeg)	6(AD)	August 1953	Tibor Simon (Simon 1957)
Maros			
Magyarcsanád	1(AD)	June 1964	Mária Tóth (Tóth 1967)
Makó	1(AD)	September 1964	Mária Tóth (Tóth 1967)
Makó	1(AD)	October 196	Mária Tóth (Tóth 1967)
Makó	2 (AD)	September 1966	Mária Tóth (Tóth 1967)
Kiszombor	1(AD)	September 1966	Mária Tóth (Tóth 1967)
Kiszombor	1(AD)	September 1965	Mária Tóth (Tóth 1967)
Ferencszállás	1(AD)	September 1966	Mária Tóth (Tóth 1967)
Klárafalva	2(AD)	September 1966	Mária Tóth (Tóth 1967)
Klárafalva	1(AD)	October 1947	Lajos Timár (Timár 1950/b)
Szeged-Marostorok	4(AD)	October 1947	Lajos Timár (Timár 1950/b)
Körös			
Körös-Kisinyov (Fehér-Körös)	1 (AD)	August 1994	Constantin Dragulescu (unpublished)
Gyula (Fehér-Körös)	1 (AD)	August 1994	Constantin Dragulescu (unpublished)
Szamos			
Szamosbecs-sziget	10 (AD)	August 1965	István Fintha (Fintha 1969)
Szamosbecs-palaj	10 (AD)	August 1965	István Fintha (Fintha 1969)
Penyige	1(AD)	July 1953	Tibor Simon (Simon 1957)

IX.3 *Salicetum albae-fragilis*

total numbers of the stands: 144 (Tisza= 89, tributaries=55)	from the frontier to Csongrád: willow-poplar gallery forest		from the frontier to Csongrád: navvy willow/ kubikfüzes		from the frontier to Csongrád: willow-poplar gallery forest		from Csongrád to Szolnok: willow-poplar		from Csongrád to Szolnok: willow-poplar		from Szolnok to Tokaj, willow-poplar gallery forest		from Polgár to Tokaj on the base of Újvárosi's (1940) 20 relevees		north of Tokaj: willow poplar galery forest	north of Tokaj: willow poplar galery forest	
numbers of the relevés: 91 (AD) + 144 (%)= 235	K	average cover (%)	K	average cover (%)	K	range of the AD values	K	average cover (%)	K	range of the AD values	K	range of the AD values	K	range of the AD values	average cover (%)	K	range of the AD values
Canopy																	
Acer campestre															0.9	I	+ - 1
Acer negundo	IV	3.388	II	2.222			III	3.529								I	+ - 1
Acer saccharinum	I	0.544															
Alnus glutinosa													I	1-2	0.8	I	+ - 1
Carpinus betulus																I	2
Celtis occidentalis	I	0.018	II	2.778			I	0.059									
Echinocystis lobata							II	0.353									
Fraxinus angustifolia	I	0.088							II	+ - 3					24.7		
Fraxinus excelsior					II	+										I	+ - 1
Fraxinus pennsylvanica	V	24.018	V	18.517	II	+ - 2	III	20.888							0.1	I	+
Fraxinus pennsylvanica/excelsior																I	1
Humulus lupulus																I	+ - 1
Morus alba	II	0.428	II	0.556					II	+ - 1							
Morus sp.							II	2.065									
Populus alba	IV	8.684	IV	4.167	II	+	III	8.588	III	2-4	V	+ -3	III	1-5		II	+ - 3
Populus alba + canescens	II	7.105	II	1.667												I	1-5
Populus canadensis/hybrida									I	2-4						I	+
Populus canescens	I	1.439													1.0	I	+ - 3
Populus nigra	IV	11.458	II	0.278	IV	+ - 1	V	22.353	III	1-4	V	1	II	1-5	0.4	IV	+ - 3
Populus tremula															4.4		
Quercus robur							II	4.118								I	+ - 2
Salix alba	V	16.491	V	46.111	II	2	V	19.412	V	+ - 5	IV	1-3	III	1-5	50.6	IV	+ - 5
Salix fragilis									I	5			III	1-5		I	+ - 2
Salix purpurea																I	+

Salix triandra					V	+ - 3			II	1			V	1-4		II	+ - 2
Salix viminalis													II	1-3		I	+ - 2
Ulmus glabra													I	2			
Ulmus laevis	I	2.596	II	0.278	II	+									0.8	I	+ - 2
Ulmus minor	I	0.089	II	0.556													
Vitis riparia	II	0.912	III	0.389			II	1.235	II	+ - 2							
shrub layer																	
Acer campestre				0.333											0.1	I	+
Acer negundo	V	6.377	II				V	11.059	III	+	II	+	I	1		I	+
Acer pseudoplatanus	I	0.018															
Acer saccharinum	I	1.005															
Acer tataricum																I	2
Alnus glutinosa													I	1	0.6	I	+
Amorpha fruticosa	V	11.532	V	9.389	II	+	IV	11.235	IV	1-5	II	2	I	1-2	11.7	II	+ - 4
Carpinus betulus																I	2
Celtis occidentalis	I	0.111	II	4.722					I	+ - 3	II	2				I	+
Cornus mas															3.5	I	2
Cornus sanguinea	I	0.088									II	1	I	2	0.7	III	+ - 4
Corylus avellana															0.2	I	+ - 1
Crataegus monogyna									I	2			I	1		I	+ - 1
Crataegus sp.																I	+
Echinocystis lobata	III	0.481	IV	0.839			V	2.653									
Euonymus europaeus																I	+
Euonymus sp.																I	+
Frangula alnus									I	+ - 2			I	1		I	+ - 1
Fraxinus angustifolia									II	+ - 5					8.0	I	+
Fraxinus excelsior									II	+							
Fraxinus pennsylvanica	V	14.635	V	16.389			V	24.888			II	+			0.8	I	+ - 1
Hedera helix																I	1
Humulus lupulus	I	0.077									II	1	II	1-2		I	+ - 1
Juglans nigra																I	+
Ligustrum vulgare																I	+
Malus sylvestris													I	1			
Morus alba	I	0.040					I	0.059	II	+ - 2						I	+ - 1
Morus nigra							I	0.006									
Populus alba	I	0.105							III	+ - 2			II	1-2			
Populus nigra	I	0.002							II	1-2						I	+ - 1

Prunus avium																I	+
Prunus cerasifera	I	0.002															
Prunus padus	I	0.035															
Prunus spinosa																I	+ - 1
Rhamnus cathartica													I	1			
Robonia pseudo-acacia															4.0	I	+ - 1
Rosa canina																I	+
Rosa sp.																I	+
Salix alba	I	0.386					I	0.588			II	+	I	1	1.5	I	+
Salix fragilis													I	1			
Salix triandra	I	0.351							III	+ - 1			III	1-2			
Salix viminalis									II	1-2			II	1-4		I	+ - 1
Sambucus ebulus																I	+
Sambucus nigra																III	+ - 2
Ulmus campestris																I	
Ulmus glabra									II	+			I	1			
Ulmus laevis	II	0.425	II	0.556							IV	+ -2				II	+ - 2
Ulmus minor	II	0.056	II	0.556					I	2							+
Ulmus sp.																I	+
Viburnum lantana											II	+				I	+
Viburnum opulus																I	1-2
Vitis riparia	III	3.725	III	1.222					II	+ - 5							
herb layer																	
Acer negundo	V	1.561	III	1.228			IV	1.241									
Acer pseudoplatanus	I	0.037															
Acer saccharinum	I	0.409															
Achillea collina																I	1
Achillea millefolium													I	1		I	+
Aegopodium podagraria																I	+ - 4
Agrimonia eupatoria																I	1
Agrostis capillaris	I	0.123															
Agrostis stolonifera	I	0.002	II	0.167	IV	+ - 2			III	+ - 4	II	1	I	1		II	+ - 3
Ajuga reptans																I	+
Alisma plantago-aquatica									II	+					0.1	I	+
Alliaria petiolata											II	+				I	+ - 1
Alopecurus pratensis					II	1			II	+							
Althaea officinalis					IV	+			II	+ - 1			I	1		II	+ - 1

Amaranthus blitum	I	0.018															
Ambrosia artemisiifolia	I	0.019															
Amorpha fruticosa	V	1.481	V	3.739			V	3.006	II	+ - 2					0.8	I	1
Anagallis arvensis																I	+
Anemone ranunculoides																I	+
Angelica sylvestris											II	1	IV	1-2		II	+ - 2
Anthriscus caucalis															0.8		
Anthriscus sylvestris											II	+			0.7	I	+
Arctium lappa	I	0.002	II	0.111	II	+					IV	+ -1	I	1		II	+ - 1
Arenaria serpyllifolia					II	+			I	+							
Aristolochia clematitis	V	1.458	IV	0.228	II	+	II	0.359	IV	+ - 4	IV	+	III	1-4		II	+ - 2
Artemisa absinthium																I	+
Artemisia annua	III	0.216					I	0.012									
Artemisia vulgaris							I	0.006			II	+	I	1		II	+ - 1
Asparagus officinalis									II	+	II	+	I	1			
Athyrium filix-femina																I	+
Atriplex oblongifolia																I	+
Atriplex tatarica					II	+											
Ballota nigra																I	+
Bidens cernuus															1.5		
Bidens tripartitus	V	4.458	V	9.622	II	+	III	0.088	IV	+	II	+	II	1		I	+
Bolboschoenus maritimus									II	+							
Brachypodium sylvaticum											II	+				I	+ - 1
Bryonia alba											II	+					
Bryonia sp.											II	+				I	+
Butomus umbellatus									II	+							
Calamagrostis epigeios					IV	+ - 1			III	+ - 4	II	+	II	1-2		I	+
Calystegia sepium	I	0.004	II	0.006	IV	+			IV	+	V	+	III	1-3		II	+ - 1
Campanula patula																I	+
Carduus acanthoides																I	+
Carduus crispus	I	0.002															
Carex distans									I	+							
Carex gracilis	I	0.021														I	+
Carex hirta	I	0.002			II	+			I	+							
Carex praecox									I	+ - 2							
Carex riparia																I	+
Carex sp.									I	+ - 5							

Carex spicata													I	1			
Carex vulpina											II	+			0.1		
Celtis occidentalis	II	0.012	II	0.611					I	+ - 2							
Centaurea pannonica									I	+						I	1
Chaerophyllum sp.											II	+				I	+
Chelidonium majus	I	0.004														I	+
Chenopodium album	I	0.035			II	+	I	0.006								I	+
Chenopodium polyspermum													I	1			
Chenopodium rubrum	I	0.105															
Chenopodium urbicum	I	0.088															
Cichorium intybus					II	+			I	+						I	+
Circaea lutetiana																I	+
Cirsium arvense					IV	1			II	+	II	1				I	+ - 1
Cirsium sp.											II	+					
Cirsium vulgare					II	+											
Clematis vitalba							I	0.006								I	+ - 2
Cnidium dubium													I	1			
Conium maculatum																I	+
Convallaria majalis																I	+
Convolvulus arvensis					II	+	I	0.006	II	+ - 1						I	+
Conyza canadensis	II	0.040					I	0.006	II	+			I	1		II	+ - 1
Cornus sanguinea															0.5	I	+
Crataegus monogyna	I	0.005							I	+							
Crepis setosa									II	+							
Cucubalus baccifer	I	0.018											III	1-3		II	+
Cuscuta australis									I	+							
Cuscuta lupuliformis					II	1			II	+			III	1-3			
Cynodon dactylon									I	+						I	3
Cyperus difformis	I	0.002															
Cyperus fuscus	I	0.002															
Dactylis glomerata					II	1											
Daucus carota									I	+						I	+
Descurainia sophia									I	+							
Dipsacus laciniatus					II	+										I	+
Echinochloa crus-galli	II	0.023			II	+										I	+
Echinocystis lobata	I	0.004	IV	0.339			II	3.235								II	+ - 3
Eleocharis palustris									I	+							

Elymus repens	I	0.018	II	0.167	V	+ - 4			IV	+ - 1			I	1		I	+ - 2
Epilobium angustifolium																I	+
Epilobium dodonaei																I	+
Epilobium hirsutum													I	1			
Epilobium montanum													I	1			
Epipactis purpurata													I	1			
Equisetum arvense	I	0.004			II	+			IV	+ - 1	IV	+	III	1	0.1	II	+
Equisetum palustre							I	0.006									
Equisetum ramosissimum																I	+
Erigeron annuus ssp. strigosus													II	1		I	+
Eryngium campestre									II	+							
Eryngium planum									I	+							
Erysimum cheiranthoides													II	1			
Erysimum repandum									I	+							
Eupatorium cannabinum											II	+	I	1		I	+ - 1
Euphorbia esula																I	+
Euphorbia lucida					IV	+			II	+							
Euphorbia palustris	I	0.002															
Euphorbia platyphyllos													I	1			
Fallopia convolvulus													II	1			
Fallopia dumetorum																I	+
Fallopia japonica																I	+
Festuca gigantea													II	1			
Festuca pratensis																I	+
Festuca rupicola																I	+
Filipendula ulmaria											II	+	I	1			
Frangula alnus									I	+ - 1							
Fraxinus angustifolia ssp. pannonica	I	0.002							II	+ - 5					1.2		
Fraxinus pennsylvanica	V	11.653	V	8.561			V	13.294								I	+ - 1
Galega officinalis																I	1
Galeopsis pubescens																I	+ - 1
Galeopsis speciosa															0.7	I	+
Galeopsis tetrahit																I	+
Galium aparine	II	0.026			II	3										II	+ - 2
Galium mollugo					II	+										I	+
Galium palustre					II	+			II	+	II	1	I	1		I	+ - 1

Galium rubioides					II	+										I	+
Genista tinctoria													I	1			
Geranium robertianum																I	+
Geum urbanum															0.1	I	+
Glechoma hederacea	III	0.451			II	+ - 1			I	+	II	+	II	1-3	5.4	I	+ - 2
Gleditsia triacanthos	I	0.002															
Glycyrrhiza echinata					IV	1			III	1							
Gnaphalium sylvaticum																I	+
Gratiola officinalis									III	+							
Hedera helix																I	+
Helianthus decapetalus																I	+ - 1
Heracleum sphondylium																I	+
Hordelymus europaeus											II	+					
Hordeum murinum					II	+			II	+							
Humulus lupulus	I	0.533														III	+ - 1
Impatiens parviflora																I	+
Impatiens roylei																I	+
Impatiens sp.																I	+
Iris pseudacorus	I	0.007	III	0.011	II	+ - 1			II	+	IV	+			3.0	II	+ - 2
Iris sibirica													I	1			
Juglans regia	I	0.002															
Juncus compressus									I	+							
Juncus effusus											II	+				I	+
Juncus sp.																I	+
Juncus tenuis																I	+
Lactuca serriola									II	+ - 1							
Lamium purpureum	I	0.002			II	+											
Lapsana communis																I	+
Lathyrus grandiflorus											II	1				I	1
Lathyrus latifolius													I	1			
Lathyrus palustris									II	+							1
Lathyrus pratensis																I	
Lathyrus tuberosus									II	+ - 1						I	+
Leersia oryzoides													I	1		I	+
Leontodon autumnalis																I	+
Leonurus marrubiastrum					II	+											
Leucanthemella serotina					II	+							I	1		I	+ - 2

Leucojum aestivum									I	+			II	1-2		I	+
Lolium perenne					II	1			II	+			II	1-2		I	+
Lotus corniculatus					II	+			I	+							
Lycopus × intercendens											II	1				I	1
Lycopus europaeus	III	0.100	II	0.006	II	+					II	1	II	1-2	0.1	III	+ - 2
Lycopus exaltatus	I	0.018			II	+	II	0.018	IV	+ - 2	IV	+ -1				I	+ - 1
Lysimachia nummularia	II	0.147			II	+	II	0.012	II	+	IV	+	III	1-3	2.5	I	+ - 1
Lysimachia vulgaris	I	0.011	III	0.083	II	+			IV	+	IV	+	II	1-2	1.5	II	+ - 1
Lythrum salicaria			III	0.172	II	+			II	1			I	1		I	+ - 1
Lythrum virgatum									II	+						I	+
Malva neglecta																I	+
Medicago varia																I	1
Melilotus albus																I	+
Melilotus officinalis																I	+
Mentha aquatica													I	1			
Mentha arvensis									I	1	II	+	I	1		I	+
Mentha longifolia											II	+	I	1		I	+ - 1
Mentha pulegium			II	0.278												I	+
Morus alba	II	0.009							II	+							
Morus nigra							I	0.006									
Myosotis palustris																I	+
Myosoton aquaticum	I	1.053			II	2			I	+	IV	+ -1	I	1-2		I	+ - 1
Oenothera biennis					IV	+			II	+			I	1		I	+
Oxalis stricta													I	1		I	+
Parthenocissus inserta									II	2						I	+
Parthenocissus sp.	I	0.002	II	0.556													
Pastinaca sativa																I	+
Persicaria amphibia					IV	+			I	+						I	+
Persicaria hydropiper	I	0.018									IV	+ -1	II	1-2		I	+ - 5
Persicaria lapathifolia													I	1		I	+
Persicaria maculosa									I	+						II	+ - 4
Persicaria minor									I	+ - 1							
Persicaria mitis													I	1			
Petasites hybridus																I	+
Phalaris arundinacea									II	+						I	+ - 2
Phragmites australis					II	+			III	+ - 1	II	+	II	1-2		I	+ - 1
Physalis alkekengi											II	1			0.1		

Plantago lanceolata									I	+						I	+
Plantago major	I	0.019							III	+ - 1			II	1		II	+ - 1
Plantago media							I	0.006									
Poa angustifolia									II	+							
Poa annua																I	+
Poa compressa									I	+							
Poa nemoralis											II	1				I	1
Poa palustris													IV	1-5		I	+
Poa trivialis					II	1					IV	+ -2				I	+ - 1
Polygonatum odoratum																I	1
Polygonum aviculare													I	1		I	+
Populus alba	III	0.323	II	0.167					I	+ - 1							
Populus nigra	I	0.002														I	+
Populus × euramericana	I	0.002															
Potentilla anserina																I	+
Potentilla reptans					II	+ - 1			III	+ - 2			I	1		I	1-2
Potentilla sp.																I	+
Prunella vulgaris					II	+ - 1			I	+	II	1	I	1		I	+ - 1
Prunus padus	I	0.004															
Pyrus pyraster									I	+							
Quercus robur	II	0.221							II	+ - 1							
Ranunculus ficaria																I	1
Ranunculus repens			II	0.278	II	1-2			III	+	II	+	III	1		II	+ - 1
Ranunculus sardous	I	0.002															
Ranunculus sceleratus	I	0.018															
Rorippa amphybia																I	+
Rorippa austriaca					II	+			I	+			I	1		I	1
Rorippa palustris	I	0.035															
Rorippa sp.							I	0.006			II	+					
Rorippa sylvestris					II	+			I	+			III	1		I	+
Rorippa sylvestris + austriaca																I	+
Rubus caesius	V	11.568	V	23.722	V	1-5	IV	13.882	V	+ - 4	V	3	V	1-5	53.7	V	+ - 5
Rumex confertus							I	0.006									
Rumex conglomeratus					IV	+			I	+							
Rumex crispus					II	+					II	+				I	+ - 1
Rumex obtusifolius													I	1			
Rumex patientia									II	+							

Rumex sanguineus	I	0.018									II	+	II	1		II	+ - 1
Rumex sp.									I	+	II	+					
Rumex stenophyllus					II	+					II	1				I	1
Salvia glutinosa																I	+
Salvinia natans	I	0.053															
Sambucus ebulus																I	+
Sambucus nigra	I	0.004													0.1	I	+
Saponaria officinalis																I	+ - 1
Schrophularia nodosa	I	0.002									II	+	I	1		I	+ - 1
Scutellaria galericulata	I	0.004			II	+					II	1	II	1-2		II	+ - 2
Senecio erraticus																I	+
Setaria glauca													I	1			
Setaria viridius									I	+						I	+
Silene latifolia ssp. alba															0.01		
Silene sp.																I	+
Sium latifolium											V	+ -1	II	1-2		I	+ - 1
Solanum dulcamara	III	0.042							I	+ - 1	IV	+	II	1-2		II	+ - 3
Solanum nigrum	I	0.023					I	0.006									
Solidago gigantea ssp. serotina									II	+ - 2	II	+	II	1-3	0.1	I	+ - 3
Sonchus arvensis					IV	+					II	+				I	+
Sonchus asper					II	+											
Sonchus oleaceus	I	0.005														I	+
Stachys palustris									II	+	V	+	III	1-3	0.2	III	+ - 2
Stellaria media	I	0.005											I	1-2		I	+
Stenactis annua					II	+ - 1										I	+ - 1
Symphytum officinale	I	0.282	II	6.111	II	+ - 2			I	+ - 2	II	+	I	1		II	+ - 1
Tanacetum vulgare					II	+			III	+			II	1		II	+ - 1
Taraxacum officinale	I	0.002			II	+	I	0.006	III	+			I	1-2		I	+
Teucrium scordium													I	1			
Thalictrum flavum					II	+											
Thalictrum lucidum					II	+											
Thlaspi arvense					II	+											
Torilis arvensis					II	+			II	+						I	+
Trifolium campestre									I	+			I	1			
Trifolium medium																I	+
Trifolium pratense																I	+
Trifolium repens					II	+							I	1		I	+ - 1

Tripleurospermum inodorum					II	+			I	+						I	+
Tussilago farfara																I	+
Typha latifolia													I	1			
Ulmus laevis	II	0.098															
Ulmus minor	I	0.005					I	0.006	II	+ - 1							
Urtica dioica	V	1.367	II	0.167	II	+	III	1.959	II	+ - 1	IV	2	II	1-5	1.6	V	+ - 3
Valeriana officinalis													I	1		I	+ - 1
Verbascum blattaria									II	+							
Verbena officinalis																I	+
Veronica anagallis-aquatica													I	1			
Veronica hederifolia																I	+
Veronica serpyllifolia													I	1			
Vicia angustifolia									I	1							
Vicia cracca									III	+			III	1-2		I	+ - 1
Vicia hirsuta									I	+							
Vicia sepium																I	+
Vicia sp.			II	0.006													
Viola sylvestris																I	+
Vitis riparia	V	1.153	II	0.056					II	+ - 2							
Xanthium italicum	II	0.005	II	0.278			I	0.059									
Xanthium strumarium									I	+							
Xanthium strumarium+italicum																I	+ - 1

	Köröszug: willow-poplar gallery forest %		Köröszug: navvy willow/kubikfüzes %		Bodrogzug: willow-poplar gallery forest AD		Bodrog %		Szamos AD		Körösök AD		Hungarian section of the Maros %		Hungarian section of the Maros AD		Romanian section of the Maros %		Romanian section of the Maros AD	
	K	average cover (%)	K	average cover (%)	K	range of the AD values	K	average cover (%)	K	range of the AD values	K	range of the AD values	K	average cover (%)	K	range of AD values	K	average cover (%)	K	range of AD values
Canopy																				
Acer campestre							II	1.333												
Acer negundo	II	4.468	I	3					I	+	III	+	IV	8.677			II	1.818		
Alnus glutinosa									I	+	III	+							I	1
Celtis occidentalis													I	0.023						
Cerasus avium							II	0.200												
Echinocystis lobata											V	+-2	II	0.256			II	0.009		
Fraxinus angustifolia							II	0.670									II	1.364		
Fraxinus excelsior															I	+				
Fraxinus pennsylvanica	V	26.896	V	16.9			II	0.667	II	+			II	5.586	I	+				
Gleditsia triacanthos													I	0.002						
Humulus lupulus											III	+	I	0.070			II	0.464		
Juglans nigra															I	+				
Juglans regia													I	0.349						
Morus alba	II	0.075									III	+	III	3.958						
Morus nigra									I	+			I	0.349						
Morus sp.													I	0.542						
Partenocyssus inserta									I	+	III	+								
Populus alba			I	2	IV	0.1-5	IV	9.267	II	1 - +			IV	10.814	III	+ - 4	IV	14.364	IV	+ - 1
Populus alba + canescens									II	+ - 3										
Populus canadensis/hybrida													I	1.512	III	1-4				
Populus canescens	IV	20.393	III	9.7	I	3							I	8.023						
Populus nigra	II	0.750	II	1.51	III	0.1-4	IV	20.667	IV	+ - 3	III	1	III	3.653	II	+ - 2	V	2.273	II	1-2

Populus tremula							II	0.333												
Prunus domestica																	II	1.191		
Prunus padus									I	1										
Pyrus communis							II	0.267												
Quercus robur									I	+			I	1.465			II	0.018		
Robinia pseudoacacia	I	0.179							I	+	III	+	I	0.260						
Salix alba	V	28.179	V	26.7	V	0.1-5	IV	17.733	V	+ - 5	V	3	V	21.628	V	2-5	IV	13.182	V	+ - 3
Salix fragilis					II	0.1-1			III	1-2	V	1-2	II	0.930	II	+ - 2			V	1-3
Salix purpurea									II	+ - 1										
Salix triandra					II	1-2			II	+ - 2	III	1								
Salix viminalis					II	0.1-1			II	+ - 3	III	+							IV	+ - 2
Ulmus laevis					IV	0.1-1			I	+			IV	10.005			IV	0.100		
Ulmus minor													I	0.767	I	+				
Vitis sylvestris																	II	0.909		
shrub layer																				
Acer campestre																	II	1.909		
Acer negundo					I	1	II	0.007	I	+			III	4.953	II	+ - 3	IV	1.136		
Acer pseudoplatanus													I	1.467						
Ailanthus altissima													I	1.233						
Amorpha fruticosa	V	5.929	V	5.03	II	1-3			III	+ - 5	III	+	V	6.542	III	1-3	V	7.818		
Calystegia sepium													I	0.840			II	4.091		
Celtis occidentalis													I	0.267						
Cerasus avium							III	0.073												
Clematis vitalba													II	0.540	I	+ - 1	II	0.018		
Cornus mas					I	0.1-1														
Cornus sanguinea							II	12.000	I	+			IV	2.681	II	1-2	IV	8.845		
Crataegus monogyna							II	0.034					I	0.233	II	+ - 2	II	0.191		
Cucubalus baccifer													I	0.123			II	0.027		
Echinocystis lobata					I	0.1							II	0.751			II	5.909		
Euonymus europaeus									I	+			I	0.002						

Frangula alnus							II	0.001							I	+ - 2	II	0.091		
Fraxinus angustifolia							III	1.133					I	0.002			II	0.191		
Fraxinus excelsior															II	+ - 1				
Fraxinus pennsylvanica					III	0.1-5	III	10.667					III	6.005						
Gleditsia triacanthos													I	0.002						
Glycyrrhiza echinata	II	0.136	I	0.01																
Hedera helix																	II	0.009		
Humulus lupulus													I	0.237			IV	3.836		
Juglans nigra							II	0.007												
Juglans regia							II	0.067					I	0.030	I	+				
Ligustrum vulgare																	II	0.009		
Morus alba													I	0.005	I	+ - 1				
Morus nigra													I	0.302						
Parthenocissus quinquefolia															I	2				
Parthenocissus sp																	II	2.727		
Populus alba													I	0.072	IV	+ - 2	II	1.818		
Populus nigra					I	2									IV	+ - 2	II	0.455		
Populus tremula							II	0.007												
Prunus spinosa							II	0.200							I	1	II	2.727		
Pyrus pyraster							II	0.007												
Quercus petraea							II	0.007												
Quercus robur							II	0.067							II	+ - 2	II	0.009		
Rhamnus cathartica															I	2				
Robonia pseudo-acacia					I	1									I	+				
Rosa canina	I	0.004	I	0.5											I	+ - 1				
Salix alba					III	0.1	II	0.067									II	0.455		
Salix cinerea							II	0.133												
Salix triandra															II	+ - 1				
Sambucus nigra					II	0.1-1	II	0.067	III	+ - 1			III	2.679			II	2.736		
Tamus communis																	II	0.009		

Tilia platyphyllos															I	+				
Ulmus campestris															I	+				
Ulmus glabra									I	+										
Ulmus laevis					I	1							II	0.863	III	+ - 2				
Ulmus minor													I	0.140			II	0.227		
Viburnum opulus					I	0.1											II	0.091		
Vitis riparia													I	0.005						
Vitis sp.													I	0.163						
Vitis sylvestris													I	1.047	II	1-3	II	0.227		
herb layer																				
Acer campestre							II	0.001												
Acer negundo					I	1							III	0.823			II	0.009		
Acer pseudoplatanus					I	1														
Achillea millefolium									III	+ - 1					III	+ - 2			V	+ - 1
Achillea pannonica	I	0.004																		
Aegopodium podagraria					I	0.1			III	+ - 1							IV	3.200		
Agrostis stolonifera					I	0.1-2			IV	+ - 2	III	+	I	0.002	IV	+ - 2	II	1.182	V	+ - 2
Ajuga reptans					II	0.1-1											II	0.009		
Alisma plantago-aquatica							II	0.133									II	0.018		
Alliaria petiolata													I	0.078			II	0.009	I	+
Allium angulosum	I	0.004																		
Alnus glutinosa					I	0.1			I	+										
Alnus incana																			I	1
Alopecurus pratensis	I	0.357					II	0.007							II	1-3	II	1.464		
Althaea officinalis	I	0.036	II	0.02	I	0.1-1					III	+			II	+ - 1	II	0.027	I	+
Ambrosia artemisiifolia	I	0.007									III	1								
Amorpha fruticosa					III	0.1-2							III	1.128			IV	0.036	I	+
Angelica sylvestris					III	0.1-4	II	0.267	I	+							II	0.027	II	+
Anthemis arvensis																			I	+
Anthriscus caucalis							II	1.587									II	0.027		

Anthriscus sp.					I	0.1														
Anthriscus sylvestris							II	0.001	I	+	III	+	I	0.002						
Arctium lappa	I	0.007	II	0.02	I	0.1	II	0.033	II	+	III	+	I	0.002	II	+ - 1	IV	0.018		
Arctium tomentosum					I	0.1														
Arenaria serpyllifolia	I																			
Aristolochia clematitis	I	0.004	I	0.02					II	+ - 1			II	0.467	IV	+ - 1	II	0.009		
Arrhenatherium elatius	I	0.004							I	+	III	1							I	+
Artemisa absinthium															I	+ - 1				
Artemisia annua													II	0.140						
Artemisia austriaca					I	0.1														
Artemisia vulgaris					I	0.1	II	0.007	IV	+ - 1	V	+-2			I	+	II	0.018	V	+ - 1
Asparagus officinalis															I	+				
Aster sp.									I	+										
Astragalus glycyphyllos															II	+ - 2				
Athyrium filix-femina							II	0.001												
Atriplex acuminata	I	0.075																		
Atriplex hastata									I	+										
Atriplex nitens									II	+									I	+
Atriplex oblongifolia															I	+ - 1				
Atriplex sp.									I	+										
Ballota nigra											III	+					II	0.009	I	+
Bidens cernuus							II	1.000												
Bidens frondosa													III	1.047						
Bidens tripartitus	IV	15.389	V	25.52	II	0.1-2	III	0.593	III	+			II	1.393	II	+ - 1	IV	0.936		
Bidens tripartitus+cernuus																			II	+ - 1
Bilderdykia concolvulus													I	0.029					I	+
Brachypodium sylvaticum							II	0.001			III	+					IV	0.200	I	+
Bromus benekenii							II	2.000												
Bromus mollis															I	+				
Bromus sp.									II	+										

Bryonia alba															I	+				
Bryonia dioica									I	+										
Calamagrostis epigeios									I	+ - 1										
Calamagrostis pseudophragmites									I	+										
Calystegia sepium					III	0.1-2			IV	+ (6)	III	+	I	0.007	V	+ - 3	IV	0.018	IV	+ - 1
Capsella bursa-pastoris									I	+					I	+				
Cardamine amara					I	0.1														
Cardamine sp.					I	0.1														
Carduus acanthoides									I	+	III	+							II	+
Carduus crispus																	II	0.009		
Carduus sp.					I	0.1														
Carex flacca															I	1				
Carex gracilis	II	2.575	II	0.11	I	0.1	III	0.473					I	0.002						
Carex hirta															II	+	IV	0.745		
Carex melanostachya	II	0.393	I	0.01											II	+ - 1				
Carex praecox															I	+ - 2				
Carex riparia					II	0.1-2														
Carex sp.													I	0.002						
Carex sylvatica																	II	0.009		
Carex vulpina					I	0.1									II	+ - 1				
Caucalis platycarpos															I	+				
Celtis occidentalis													I	0.002						
Centaurea jacea					I	0.1									II	+				
Centaurea pannonica	I	0.004																		
Cephalanthera damasonium															I	+				
Cerastium holosteoides									I	+					I	+			I	+
Cerasus avium							II	0.007												
Chaerophyllum hirsutum																			I	+
Chelidonium majus									II	+			II	0.567						
Chenopodium album													I	0.002	I	+	II	0.009	II	+ - 1

Chenopodium glaucum	I	0.004																		
Chenopodium polyspermum	II	0.057	II	0.02					I	+					I	+ - 1				
Chenopodium rubrum	I	0.821	I	0.1																
Cichorium intybus	I	0.004			I	0.1					III	1			III	+ - 1	II	0.009		
Circaea lutetiana																	II	1.091		
Cirsium arvense	I	0.004	I	0.01					I	+	III	1			II	+ - 2	IV	0.018	IV	+
Cirsium brachycephalum	I	0.004	II	0.02																
Cirsium palustre	I	0.004																		
Cirsium vulgare															I	+				
Clematis integrifolia															I	+	II	0.009		
Clematis vitalba									II	+										
Conium maculatum									III	+ - 1									II	+
Convallaria majalis							II	5.700												
Convolvulus arvensis	II	0.014	II	0.02									I	0.009	I	+				
Conyza canadensis	I	0.004			I	0.1			I	+	III	+	I	0.012	II	+ - 2			II	+
Cornus sanguinea					I	0.1	II	0.200					I	0.098			IV	0.364		
Crepis setosa															I	+				
Cucubalus baccifer							II	0.001	I	+ (6)			II	0.334	II	+ - 1	II	0.009	II	+
Cuscuta campestris			I	0.01																
Cuscuta lupuliformis															I	+ - 1				
Cynodon dactylon	I	0.004																	I	+
Dactylis glomerata	I	0.004			I	0.1	IV	0.014	II	+					II	+ - 2				
Daucus carota	I	0.004							I	+					III	+ - 2			II	+ - 1
Descurainia sophia									I	+									II	+
Dipsacus laciniatus															II	+ - 1	II	0.009		
Dipsacus fullonum									I	+										
Echinochloa crus-galli	II	0.371							I	+			I	0.047	I	+ - 1	IV	0.018	III	+ - 1
Echinocystis lobata	III	0.654	II	1.51	III	0.1-1			II	+ - 1			III	0.965	I	+ - 2			IV	+ - 2
Echinops sphaerocephalus															II	+ - 2				
Eleocharis acicularis							III	0.001												

Eleocharis palustris	I	0.071																		
Elymus repens	I	0.007	I	0.1											I	2				
Elymus sp.									I	+										
Epipactis helleborine													I	0.002	I	+				
Equisetum arvense	I	0.075					II	0.021	I	+			II	0.007	III	+ - 2	II	0.009	II	+ - 1
Equisetum fluviatile									I	+										
Equisetum hyemale					I	0.1														
Erigeron annuus ssp. strigosus									I	+	III	+			II	+ - 1				
Eryngium campestre															I	+				
Eryngium planum															I	+				
Eupatorium cannabinum									I	+	III	+					II	0.009	I	+
Euphorbia cyparissias															I	1				
Euphorbia esula																	II	0.009		
Euphorbia lucida	I	0.007													II	+				
Euphorbia palustris					I	0.1							I	0.002						
Euphorbia virgata	I	0.039																		
Fallopia japonica									II	+	III	1							I	+
Festuca gigantea							II	0.007												
Festuca rupicola															II	+ - 3				
Fraxinus angustifolia ssp. pannonica							II	0.340									II	0.009		
Fraxinus pennsylvanica					I	0.1-1							III	2.302						
Fumaria officinalis															I	+				
Galega officinalis															II	+				
Galeopsis pubescens					I	2														
Galeopsis speciosa																	II	0.291		
Galinsoga parviflora																			I	+
Galium aparine					I	0.1-1	II	0.001	III	+			II	0.158	II	+ - 2	V	0.055		
Galium boreale	I	0.007																		
Galium mollugo															I	+	IV	0.200		
Galium palustre							III	0.268							I	+				

Galium rubioides															II	+ - 2				
Galium schultesii															I	+				
Galium verum															I	+				
Geum urbanum					I	0.1			II	+							IV	0.209		
Glechoma hederacea	I	0.039	III	0.03	III	0.1-3	II	0.673	II	+			III	0.420	III	+ - 2	IV	0.764	II	+
Gleditsia triacanthos													I	0.002						
Glyceria aquatica																			I	+
Glyceria maxima	I	0.643																		
Glycyrrhiza echinata															III	+ - 2	II	0.200		
Gnaphalium uliginosum	I	0.004																		
Hedera helix																	II	0.027		
Helianthus decapetalus									IV	+ - 3	III	1-2							IV	+ - 4
Heracleum sphondylium									II	+ - 1							II	0.009	II	+
Hordeum murinum															I	2				
Humulus lupulus	I	0.039	II	0.12	II	0.1	II	0.007	III	+ - 1			III	1.731	II	+ - 3				
Hypericum perforatum					I										I	+				
Impatiens noli-tangetre																			I	1
Inula britannica	I	0.004			II	0.1									II	+ - 1	II	0.009		
Inula helenium																	II	0.009		
Iris graminea							II	0.007												
Iris pseudacorus	II	0.054	III	0.03	II	0.1-1	IV	0.060					I	0.005	I	+ - 1	IV	0.036		
Juglans regia									I	+										
Juncus effusus					I	0.1														
Juncus tenuis																			II	+
Lactuca saligna													I	0.002	II	+				
Lactuca serriola	I	0.004							I	+			I	0.014	I	+ - 1	II	0.009	I	+
Lamium album									II	+										
Lamium maculatum									I	+			I	0.005			II	0.009		
Lamium purpureum															I	+				
Lapsana communis															I	+				

Lathyrus hirsutus					I	0.1									I	+				
Lathyrus sylvestris																	II	0.009		
Lathyrus tuberosus															II	+ - 1				
Lemna minor							III	12.673												
Leontodon autumnalis					I	0.1														
Leonurus marrubiastrum															I	+				
Lepidium ruderale																			I	+
Leucanthemella serotina					I	0.1	III	0.001												
Leucojum aestivum							II	1.000							I	+				
Ligustrum vulgare																	II	0.009		
Linaria vulgaris	I	0.004													I	+				
Lolium perenne					I	0.1			II	+	III	+							IV	+ - 1
Lotus corniculatus	I	0.004							I	+					II	+ - 1			II	+
Lycopus × intercendens									I	+										
Lycopus europaeus	II	0.011	II	0.07	V	0.1-5	III	0.440					II	0.191	III	+			I	+
Lycopus exaltatus					III	0.1-2			I	1					III	+ - 2				
Lysimachia nummularia	I	0.361	II	0.02	V	1-3	II	0.134	I	+	III	+	II	0.095	III	1-3	V	0.845	II	+
Lysimachia vulgaris	III	0.879	III	0.04	II	0.1-4	III	0.155	I	+	III	+			II	+ - 2	II	0.009		
Lythrum salicaria	II	0.968	III	0.13	III	0.1-2			I	+	III	+	II	0.163	II	+ - 1	II	0.009	IV	+
Lythrum virgatum	I	0.004			I	0.1			I	+					I	+	II	0.009		
Malva sylvestris					I	0.1														
Marchantia polymorpha							III	0.003												
Marrubium vulgare															I	+				
Medicago lupulina									I	+					I	+			II	+
Medicago minima															I	+				
Melilotus albus	I	0.004									III	+			II	+ - 1				
Mentha aquatica					I	0.1			I	+										
Mentha arvensis															II	+ - 2	II	0.282		
Mentha longifolia									II	+ - 1					I	+			IV	+ - 1
Mentha pulegium	I	0.007			II	0.1-1														

Myosotis arvensis															I	+				
Myosotis palustris																			I	+
Myosoton aquaticum									I	+			I	0.007	I	+				
Oenanthe aquatica	I	0.007	I	0.4			III	0.002					I	0.002						
Oenothera biennis									I	+ - 1					II	1				
Oxalis stricta	I	0.004	I	0.01	I	1							I	0.005	I	+	II	0.009	I	+
Parthenocissus sp.																	II	0.009		
Pastinaca sativa							II	0.001	III	+					I	+			II	+
Persicaria amphibia					II	0.1-1			I	+										
Persicaria hydropiper															I	+				
Persicaria lapathifolia	II	0.114	II	0.3			III	1.003	III	+ - 2					I	+			III	+ - 1
Persicaria maculosa																			III	+ - 1
Persicaria minor															II	+ - 2				
Petasites hybridus											III	+							I	2
Phalaris arundinacea									I	+			I	0.093	II	+ - 2	II	1.827		
Phragmites australis	I	0.361			II	0.1-2			III	+ - 1			II	0.363	III	+ - 3	II	0.018		
Physalis alkekengi															II	+ - 1				
Picris hieracioides	I	0.004													II	+ - 1				
Plantago lanceolata	I	0.004							I	+					I	+			I	+
Plantago major	II	0.018			II	0.1-1			I	-1					II	+	II	0.027	IV	+ - 1
Poa angustifolia					II	1									II	2-3	II	0.009		
Poa palustris			I	0.01					I	+										
Poa trivialis									I	+					II	+ - 3			I	+
Polygonatum latifolium																	II	0.009		
Polygonatum odoratum																	II	0.018		
Polygonum aviculare					I	0.1			II	+ - 1	III	+			I	1			V	+ - 1
Populus alba					I	0.1							II	0.544			IV	0.109		
Populus canescens													I	0.007						
Populus nigra					I	0.1	III	0.007					I	0.005						
Potentilla alba					I	0.1														

Potentilla anserina					II	0.1			III	+ - 2									IV	+ - 1
Potentilla argentea															I	+				
Potentilla reptans	I	0.357			I	2					III	+			II	+ - 1	II	1.545	III	+
Potentilla supina															I	+				
Prunella vulgaris					I	0.1									II	+ - 1	II	0.455	II	+
Prunus spinosa	I	0.004					II	0.007												
Pulicaria vulgaris																			II	+
Quercus petraea							II	0.007												
Quercus robur													III	0.031			IV	0.036		
Ranunculus acris					III	0.1-2	II	0.040									II	0.009	II	+ - 1
Ranunculus lingua					I	0.1														
Ranunculus repens					II	1-2	IV	0.009	III	+ - 2							IV	1.191	V	+ - 1
Ranunculus sardous	I	0.018													IV	+ - 1				
Reynoutria japonica																	II	0.009		
Riccia fluitans							III	0.173												
Robinia pseudoacacia					I	0.1	III	0.221												
Rorippa × armoracioides									I	+										
Rorippa amphybia							III	0.113												
Rorippa austriaca					I	1			I	+	III	+			II	+			II	+
Rorippa islandica	I	0.007													I	+				
Rorippa sylvestris																	II	0.009		
Rubus caesius	IV	11.204	IV	10.35	IV	1-5	V	11.633	V	+ - 5	III	+	V	22.629	V	1-4	V	22.455	IV	+ - 2
Rudbeckia laciniata											III	+								
Rumex conglomeratus									I	+					II	+	V	0.055	I	+
Rumex crispus	II	0.014	II	0.02					II	+ - 1										
Rumex obtusifolius																			I	+
Rumex sanguineus					II	0.1-3											II	0.191		
Rumex sp.													I	0.001						
Rumex stenophyllus													I	0.002						
Sagittaria sagittifolia							II	0.001												

Salix alba					I	1	II	0.007												
Salvia glutinosa																	II	0.200		
Salvinia natans							III	4.067												
Sambucus ebulus															I	+ - 2				
Sambucus nigra					II	0.1													I	+
Schoenoplectus lacustris	I	0.004																		
Schrophularia nodosa																	II	0.009		
Scirpus silvaticus																			II	+ - 1
Scutellaria galericulata					II	1-2			I	+					II	+	II	0.018		
Scutellaria hastifolia	II	0.232	I	0.05																
Securigera varia															II	+ - 1				
Senecio fluviatilis									I	+ - 2										
Setaria glauca															I	+				
Setaria viridius											III	+								
Silene latifolia ssp. alba									I	+	III	+			II	+				
Silene vulgaris									I	+										
Sinapis arvensis									II	+									I	+ - 1
Sium latifolium					II	1	II	0.007												
Solanum dulcamara	I	0.007			III	0.1-2	II	0.013	II	+ - 1			II	0.421	II	+	IV	0.036		
Solanum nigrum	I	0.004											I	0.002	I	+				
Solidago canadensis	I	0.004																		
Solidago gigantea ssp. serotina					II	1-4			I	1	III	+	I	0.002	I	2				
Sonchus arvensis									I	+					I	+	II	0.009	II	+
Sonchus asper															I	+				
Sonchus oleaceus															I	+	II	0.018		
Spirodela polyrhiza							III	16.000												
Stachys annua			I	0.01																
Stachys palustris	I	0.007	II	0.02	III	0.1-3	II	0.001	I	+			I	0.070	II	+ - 1	IV	0.573		
Stachys sylvestris																	IV	0.291		
Stellaria graminea					I	0.1									I	+				

Stellaria media									I	+			I	0.002			II	0.009	II	+
Stellaria neglecta															II	+ - 1				
Stellaria nemorum									III	+ - 1										
Stenactis annua					I	0.1-2							I	0.002			IV	0.045		
Succisella inflexa															I	+				
Symphytum officinale	II	0.886	V	1.73	I	0.1	III	0.001	I	+			II	0.035	III	+ - 2	II	0.936	IV	+
Tanacetum vulgare			I	0.01	I	0.1			III	+	III	+			II	+ - 1	II	0.009	IV	+
Taraxacum officinale	I	0.004							V	+ - 1					II	+ - 1			V	+ - 1
Telekia speciosa																	II	0.009		
Thalictrum aquilegiifolium					I	3														
Thalictrum flavum																	II	0.009		
Thalictrum lucidum			I	0.01											I	+ - 2	II	0.009		
Thlaspi arvense															I	+				
Torilis japonica															I	1	II	0.009		
Tragopogon dubius															II	+				
Trifolium campestre									I	+					I	+				
Trifolium pratense									I	+					I	+ - 2				
Trifolium repens									III	+ - 1					I	+ - 2			V	+ - 2
Trifolium sp.					I	0.1														
Tripleurospermum inodorum	I	0.007			I	0.1														
Turgenia latifolia															I	+				
Tussilago farfara					I	0.1			I	+									II	+
Typha latifolia			I	0.01			II	0.007												
Ulmus glabra																			I	+
Ulmus laevis					I	0.1							I	0.001						
Ulmus minor													II	0.007			II	0.091		
Urtica dioica	III	0.296	II	0.03	II	0.1-2	IV	0.440	V	+ - 2	V	+-2	V	2.492	IV	+ - 3	IV	7.291	V	+ - 3
Verbascum austriacum															I	+				
Verbascum densiflorum											III	+								
Verbena officinalis	I	0.004							I	+					I	+ - 1			II	+

Veronica arvensis															I	+				
Veronica polita															I	+				
Vicia angustifolia															II	+ - 1				
Vicia cracca	I	0.004			II	0.1			I	+					II	+ - 2			II	+
Vicia dumetorum									I	+										
Vicia grandiflora															II	+				
Vicia hirsuta															II	+				
Vicia sepium									I	+										
Vicia tetrasperma															I	+				
Viola cyanea															I	+ - 1				
Viola elatior															I	+				
Viola hirta													I		I	+				
Viola sp.													I	0.002						
Viola sylvestris							II	0.001									II	0.273		
Vitis riparia	II	1.829	II	0.11	I	0.1								0.237						
Vitis sylvestris																	II	0.018		
Xanthium italicum	II	0.043											I	0.140	I	+	II	3.182		
Xanthium sp																	II	0.009		
Xanthium spinosum					I	0.1														
Xanthium strumarium	II	0.014	II	0.11					I	+ - 1										
Xanthium strumarium+italicum									I	+ - 1	III	+							IV	+ - 2

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Tisza from the southern border to Csongrád			
Between Szeged and the border	3 (AD)	June 1960	György Bodrogközy (unpublished)
Szeged, right bank, navvy hole forest	7 (%)	August 2004	Orsolya Makra (Gallé et al. 2004)
Szeged, right bank, gallery forest	4 (%)	August 2004	Orsolya Makra (Gallé et al. 2004)
Szeged, left bank	18 (%)	October 2004	Bálint Czúcz, András Révész (Gallé et al. 2004)
Tápé	2 (AD)	June 1946	Lajos Timár (Timár 1950)

Atka, left bank	2 (%)	August 2004	László Körmöczi, Márta Zalatnai, Orsolya Makra (Gallé et al. 2004)
Atka, right bank	7 (%)	September 2004	Katalin Margóczi (Gallé et al. 2004)
Atka, right bank, navvy hole forest	3 (%)	September 2004	Katalin Margóczi (Gallé et al. 2004)
Mártély	5 (%)	September 2001	Katalin Margóczi Gallé (2002/b)
Mindszent, left bank	4 (%)	July 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Mindszent, right bank	2 (%)	July 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Csanytelek, navvy hole forest	3 (%)	July 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Szegvár,	10 (%)	September 2001	Katalin Margóczi (Virág 2003)
Szegvár, (navvy hole forest)	5 (%)	September 2001	Katalin Margóczi (Virág 2003)
Csanytelek	2 (%)	July 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Szentes	2 (%)	September 2005	Anikó Böszörményi (unpublished)
Köröszug			
Köröszug (gallery forest)	14 (%)	Summer 2000	Áron József Deák (Deák 2001)
Köröszug (navvy hole forest)	9 (%)	Summer 2000	Áron József Deák (Deák 2001)
Köröszug (gallery forest)	15 (%)	October 2004	Áron József Deák (Gallé et al. 2004)
Tisza from Csongád to Szolnok			
Tőserdő	10 (AD)	July-September 1977	Katalin Margóczi (Horváth et al 1979)
Tiszaug	1 (AD)	July 1958	György Bodrogközy (unpublished)
Tiszaug	2 (AD)	July 1944	Lajos Timár (Timár 1950)
Martfű	7 (%)	July 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Vezseny	2 (%)	September 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Tószeg	2 (%)	August 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Szandaszőlős	5 (%)	August 2004	Orsolya Makra, Márta Zalatnai (Gallé et al. 2004)
Tisza from Szolnok to Tokaj			
Szolnok	4 (AD)	June 1944	Lajos Timár (Timár 1950)
Szolnok	2 (AD)	June-July 1944	Lajos Timár (Timár 1950)
Tiszalök	1 (AD)	June 1959	György Bodrogközy (unpublished)
Taktabáj	2 (AD)	June 1959	György Bodrogközy (unpublished)
Tisza from Polgár to Tokaj	20 (AD)	Summer 1953	Miklós Újvárosi (Újvárosi 1940)
Bodrogzug			
Zalkod	1 (AD)	1983	Zoltán Tuba (unpublished)
Kenézlő	2 (AD)	1990	Zoltán Tuba (unpublished)
Bodrogzug	9 (AD)	1983	Zoltán Tuba (unpublished)
Tokaj-Bodrogzug	2 (AD)	1983	Zoltán Tuba (unpublished)
Tisza mente, Gelin erdő	3 (AD)	1983	Zoltán Tuba (unpublished)

Tisza from Tokaj to the north-eastern border			
Timár	1 (AD)	June 1959	György Bodrogközy (unpublished)
Tiszacsermely	10 (%)	October 2005	János Nagy, Orsolya Szirmai, Tibor Szerdahelyi, Dániel Cserhalmi (Gal et al., 2006)
Dombrád	3 (AD)	July 1966	György Bodrogközy (unpublished)
Tiszavid	1 (AD)	July 1966	György Bodrogközy (unpublished)
Tiszaszalka	1 (AD)	August 1953	Tibor Simon (Simon 1957)
Gergelyiugornya: Bagiszeg	6 (AD)	September 1952 and 1953	Tibor Simon (Simon 1957)
Vásárosnamény	1 (AD)	August 1995	Constantin Dragulescu (unpublished)
Vásárosnamény	1 (AD)	May 1958	György Bodrogközy (unpublished)
Jánd	1 (AD)	September 1952	Tibor Simon (Simon 1957)
Jánd	2 (AD)	August 1995	Constantin Dragulescu (unpublished)
Kisar	1 (AD)	September 1952	Tibor Simon (Simon 1957)
Kisar-Badaló	3 (AD)	1952-53	Tibor Simon (Simon 1952)
Kisar	1 (AD)	May 1958	György Bodrogközy (unpublished)
Bosteny-Ukrajna	2 (AD)	August 1995	Constantin Dragulescu (unpublished)
Vinogradov-Ukrajna	2 (AD)	August 1995	Constantin Dragulescu (unpublished)
River Bodrog			
Sárospatak (south of Bodroghalász)	7 (%)	October 2005	János Nagy, Orsolya Szirmai, Zsolt Ürmös, Tibor Szerdahelyi, Dániel Cserhalmi
Bodroghalász	2 (%)	May 2004	Zoltán Tuba (Gal et al., 2006)
Sárospatak, Ó-Bodrog, backwater	2 (%)	October 2006	János Nagy, Bernadett Gál (Gal et al., 2006)
Sárospatak (old railway bridge)	4(%)	October 2005	János Nagy (unpublished)
River Szamos			
under Kolozsvár	2 (AD)	June 1992	Constantin Dragulescu (unpublished)
Nima	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Casei	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Beclean	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Salsig	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Benerat	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Gergelyiugornya	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Olcsva	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Paulesti	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Beclean	1 (AD)	June 1992	Constantin Dragulescu (unpublished)
Szamoskér	1 (AD)	October 1952	Tibor Simon (Simon 1957)
Szamosbecs	10 (AD)	August 1965	István Fintha (Fintha 1969)

River Körös			
Háromalmás	1 (AD)	August 1994	Constantin Dragulescu (unpublished)
Békéscsaba (Gerla)	1 (AD)	August 1994	Constantin Dragulescu (unpublished)
River Maros			
Szeged	1 (AD)	October 1964	Mária Tóth (Tóth 1967)
Vetyehát	5 (%)	June 2001	Katalin Margóczi, Orsolya Makra (Gallé 2002/a)
Vetyehát renewed poplar forest	5 (%)	June 2001	Katalin Margóczi, Orsolya Makra (Gallé 2002/a)
Tápérét	1 (AD)	September 1965	Mária Tóth (Tóth 1967)
Maroslele	3 (AD)	August 1965	Mária Tóth (Tóth 1967)
Makó-Landor	4 (%)	June 2005	Orsolya Makra (unpublished)
Makó-Landor	1 (%)	July 1997	Károly Penksza (Penksza et al 1997)
Ferencszállás	2 (AD)	September 1965	Mária Tóth (Tóth 1967)
Kiszombor	3 (AD)	June-September 1965	Mária Tóth (Tóth 1967)
Makó	3 (AD)	May-June 1966	Mária Tóth (Tóth 1967)
Makó, Csordajárás	5 (%)	August 2001	Orsolya Makra (Makra 2002)
Makó, Csordajárás, gallery forest	5 (%)	October 2001	Orsolya Makra (Makra 2002)
Apátfalva	2 (AD)	October 1965	Mária Tóth (Tóth 1967)
Apátfalva	1 (%)	2000 and 2001	Károly Penksza (Penksza et al 2001)
Bökény	5 (%)	August 2001	Orsolya Makra (unpublished)
Bökény	1 (%)	2000 and 2001	Károly Penksza (Penksza et al 2001)
Csigai-Szilvás	2 (%)	2000 and 2001	Károly Penksza (Penksza et al 2001)
Maros sandbank	1 (%)	November 1997	Károly Penksza (Penksza et al 1997)
Maros island	1 (%)	November 1997	Károlya Penksza (Penksza et al 1997)
Határsziget	7 (%)	August 2005	Orsolya Makra (unpublished)
Bezdin, kisporond	3 (%)	July 2000	Katalin Margóczi (Gallé et al. 2002/b)
Bezdin, navvy willow	3 (%)	July 2000	Katalin Margóczi (Gallé et al 2002/b)
Szolcsva, willow forest	5 (%)	August 2001	Katalin Margóczi, Orsolya Makra (Gallé 2002/a)
Mihalt, firth of Küküllő	2 (AD)	July 1991	Constantin Dragulescu (unpublished)
between Nyárádtő and Moresti	2 (AD)	August 1991	Constantin Dragulescu (unpublished)
Santimbru	1 (AD)	July 1991	Constantin Dragulescu (unpublished)
between Ratosnya and Lunca Bradului	1 (AD)	August 1991	Constantin Dragulescu (unpublished)
Kutyfalva/Cicu	1 (AD)	August 1991	Constantin Dragulescu (unpublished)
between Ludas and Gheja	2 (AD)	August 1991	Constantin Dragulescu (unpublished)
Iernut	1 (AD)	August 1991	Constantin Dragulescu (unpublished)
Lechinţa/ Lekence	1 (AD)	August 1991	Constantin Dragulescu (unpublished)

X.1 *Paridi quadrifoliae-Alnetum*

	A-D	K
Upper canopy layer (A1)		
Acer negundo	1	I
Alnus glutinosa	3-4	V
Betula pendula	+	I
Fraxinus angustifolia ssp. pannonica	1-3	V
Juglans nigra	+	I
Populus alba	1	I
Populus nigra	+	I
Populus tremula	+	I
Populus × canadensis	1	I
Quercus robur	+-1	III
Tilia tomentosa	+	I
Ulmus minor	1	I
Lower canopy layer (A2)		
Acer negundo	+-2	III
Acer tataricum	+	I
Alnus glutinosa	1	III
Betula pendula	+	I
Celtis occidentalis	+	II
Fraxinus angustifolia ssp. pannonica	+-2	V
Fraxinus pennsylvanica	+	II
Juglans nigra	+	I
Populus alba	1	I
Quercus robur	+	I
Tilia tomentosa	+	II
Ulmus laevis	2	III
Ulmus minor	+	I
Shrub layer (B1)		
Acer campestre	+	II
Acer negundo	1-2	III
Alnus glutinosa	+	II
Celtis occidentalis	+-1	II

Cornus sanguinea	+-2	V
Corylus avellana	+-2	IV
Crataegus monogyna	+-2	IV
Euonymus europaea	+-1	III
Frangula alnus	+	II
Fraxinus angustifolia ssp. pannonica	1-2	V
Fraxinus pennsylvanica	+	III
Humulus lupulus	+	II
Juglans nigra	+	I
Ligustrum vulgare	+-1	IV
Malus sylvestris	+	I
Populus alba	+	I
Populus tremula	+	I
Rhamnus catharticus	+	II
Ribes rubrum ssp. sylvestre	+	I
Rosa canina agg.	+	I
Sambucus nigra	+-3	V
Tilia tomentosa	+	II
Ulmus laevis	+-2	II
Ulmus minor	+-2	III
Viburnum opulus	+	I
saplings (B2)		
Acer campestre	+	III
Acer negundo	+	III
Acer tataricum	+	I
Alnus glutinosa	+	II
Celtis occidentalis	+	III
Cornus sanguinea	+	V
Corylus avellana	+	II
Crataegus monogyna	+	V
Euonymus europaea	+-1	V
Euonymus verrucosa	+	I
Frangula alnus	+	III
Fraxinus angustifolia ssp. pannonica	+-2	V
Juglans nigra	+	I
Ligustrum vulgare	+	V
Malus sylvestris	+	I

Morus alba	+	I
Populus alba	+	I
Populus tremula	+	I
Prunus spinosa	+	I
Quercus robur	+	III
Rhamnus catharticus	+	IV
Robinia pseudo-acacia	+	I
Rosa canina agg.	+	I
Rubus caesius	+-3	IV
Sambucus nigra	+-1	IV
Tilia tomentosa	+	I
Ulmus minor	+	IV
Viburnum opulus	+	V
Herbaceous layer (C)		
Aegopodium podagraria	+-2	V
Agropyron caninum	+	II
Ajuga reptans	+-1	III
Alliaria petiolata	+	III
Allium ursinum	5	III
Anemone ranunculoides	+	I
Angelica sylvestris	+	II
Anthriscus cerefolium ssp. trichosperma	+	I
Arctium lappa	+	I
Arctium minus	+	II
Athyrium filix-femina	+	I
Brachypodium pinnatum	+	I
Brachypodium sylvaticum	+-3	V
Bromus ramosus agg.	+	I
Campanula trachelium	+	III
Carex acutiformis	+	II
Carex remota	+	II
Carex spicata	+	I
Carex sylvatica	+-1	III
Chaerophyllum temulum	+-1	V
Chelidonium majus	+	I
Circaea lutetiana	+-2	V
Cirsium canum	+	I

Cirsium rivulare	+	II
Clinopodium vulgare	+	II
Convallaria majalis	+-1	II
Cruciata glabra	+	I
Cucubalus baccifer	+	V
Cynoglossum officinale	+	I
Dactylis polygama	+	III
Dentaria bulbifera	1	I
Deschampsia caespitosa	+	IV
Dryopteris carthusiana s.str.	+	I
Dryopteris filix-mas s.str.	+	II
Epilobium hirsutum	+	I
Epilobium tetragonum	+	I
Epipactis helleborine agg.	+	I
Equisetum arvense	+	III
Equisetum palustre	+	I
Eupatorium cannabinum	+	III
Fallopia dumetorum	+	II
Festuca gigantea	+	IV
Ficaria verna	+	I
Filipendula ulmaria	+	I
Fragaria vesca	+	I
Galeopsis bifida	+	I
Galeopsis pubescens	+	II
Galeopsis speciosa	+-1	I
Galium aparine	+-2	IV
Geranium robertianum	+-2	V
Geum urbanum	+-1	V
Glechoma hederacea s.str.	+-2	IV
Heracleum sphondylium	+	IV
Humulus lupulus	+	V
Lapsana communis	+	V
Lathraea squamaria	+	I
Lilium martagon	+	I
Listera ovata	+	II
Lychnis flos-cuculi	+	I
Lycopus europaeus	+	I

Lysimachia nummularia	+-1	V
Melittis carpatica	+	I
Mentha aquatica	+	I
Milium effusum	+-1	V
Moehringia trinervia	+	V
Mycelis muralis	+	I
Platanthera bifolia	+	I
Poa nemoralis	+	I
Poa trivialis	+	III
Polygonatum latifolium	+-2	III
Polygonatum multiflorum	+	III
Pulmonaria mollis	+	I
Pulmonaria officinalis s.str.	+-1	III
Ranunculus auricomus agg.	+	I
Ranunculus repens	+	I
Rumex sanguineus	+	I
Scrophularia nodosa	+	I
Solanum dulcamara	+	II
Stachys sylvatica	+-2	V
Stellaria media	+	II
Symphytum tuberosum ssp. angustifolium	+	I
Taraxacum officinale	+	II
Torilis japonica s.str.	+	IV
Urtica dioica	+-2	IV
Veratrum album	+	I
Veronica chamaedrys	+	I
Veronica hederifolia	+	II
Veronica officinalis	+	I
Viola cyanea	+	II
Viola mirabilis	+	III
Viola sylvestris	+	III

locality of the stands	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Nyírség	10 (AD)		Balázs Kevey (unpublished)

X.2. *Fraxino pannonicae-Ulmetum*

		Kv1		Kv2		Ny1		Ny2		Ny3		Sz1		Sz2		Bg1		Bg2
	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K
upper canopy layer (A1)																		
Acer campestre			+-2	I	+-1	III			+-3	II	1-2	II			+-1	I	+-1	I
Acer platanoides									+-1	I								
Acer pseudo-platanus			1	I					+-1	I							+	I
Acer tataricum					1	I					1	I			+	I		
Alnus glutinosa											2	I					+-1	I
Betula pendula					1	I			+-1	I								
Carpinus betulus					1	I			+	I	1-4	I			+	I		
Cerasus avium							+	I	+	I	1-2	I					+-1	I
Cornus sanguinea					2	I												
Fraxinus angustifolia ssp. pannonica	+-5	V	+-4	V	1-5	V	1-4	V	+-4	V	1	II	1-2	II	+-2	III	+-4	IV
Fraxinus excelsior			1	I														
Hedera helix									+	I								
Juglans nigra			1	I					+	I							+-3	I
Larix deciduca	1	I																
Loranthus europaeus	1	I	+	I			+	I	+	I			+	II				
Malus sylvestris					1	I												
Pinus sylvestris	1	I																
Populus alba	1	I	1-3	I	1-2	II	+-4	III	+-4	III	1-2	I			1-2	I	1	I
Populus nigra									+	I								
Populus tremula					+-5	III	+-1	I	+-1	I	1	I	1	I	1	I	1	I
Populus × canescens											1-2	I			2-3	I		
Pyrus pyraster	+-1	I			1	I	1	I			1-2	I			+	I		
Quercus cerris	+-5	I	+-1	I					+-1	I	1	II			1	II		
Quercus petraea agg.			1	I														
Quercus robur	+-5	IV	+-5	V	1-4	IV	1-4	IV	+-4	V	1-5	V	4-5	V	+-3	V	1-5	V
Quercus rubra																	+	I
Robinia pseudo-acacia			+-1	I			+	I	+-2	I	1	I			+-1	I		
Salix alba																	+	I
Salix cinerea					1	I												
Salix fragilis					1	I	+-1	I	+	I	+	I						

Salix triandra															1	I		
Tilia cordata					+-4	II			+-3	II								
Tilia platyphyllos	1	I	1	I			2	I	+-2	I								
Tilia tomentosa					1-3	II	+-1	I	+-3	II							+-1	I
Ulmus glabra					1	II					1-2	I			1	I		
Ulmus laevis	+-2	I	+-1	I	1-2	II	+-2	II	+-4	III					1-3	I	+-2	II
Ulmus minor					1-5	IV					1-3	II			+-5	II	+	I
Viscum album					1	I			+	I								
lower canopy layer (A2)																		
Acer campestre	+-5	II	+-4	IV			+-1	I	+-3	V	1	I	1-3	IV	+-1	II	+-3	V
Acer negundo	1	I	+-3	II			+-2	II	+	I								
Acer platanoides									1	I							+	I
Acer pseudo-platanus			+-2	I					+	I							+-2	I
Acer tataricum			+-2	II					+-2	II			1-2	V	+	I	+-2	II
Aesculus hippocastanum			+	I													+	I
Alnus glutinosa							+	I									+-1	I
Betula pendula	1	I							+	I								
Carpinus betulus	1	I							+-1	III	1	I	+	II	+-2	II	+-1	III
Celtis occidentalis			+	I			+	I										
Cerasus avium							+	I	+-1	II							+	I
Clematis vitalba			+	I														
Cornus sanguinea							+	I	+	I							+	I
Corylus avellana							+-2	II	+-2	II			1	I				
Crataegus monogyna			+	I			+-1	I	+	I							+	I
Fraxinus angustifolia ssp. pannonica			+-3	IV			1-3	V	+-3	III	+	I	+-1	II	1	I	+-2	IV
Fraxinus excelsior			+-2	I														
Fraxinus pennsylvanica			+-1	I			+-2	I	+	I			+	I			+-1	II
Hedera helix			+	I					+	II			+	I			+	I
Malus sylvestris	1	I	+-2	I			+	I	+	I			+	I			+	I
Morus alba			+-1	I														
Padus avium			+-3	I			+	I	+	I							+-1	I
Populus × canescens											+	I						
Populus alba							1	I	+	I							+	I
Populus tremula							1	I					+	II				
Pyrus pyraster			+	I			+-2	II	+-1	I			+-1	II	1-2	I	+	I
Quercus robur			+-1	I			+-1	I	+	I	+-1	I	1	II	1-2	II	+-1	I
Rhamnus catharticus							+	I	+	I								

Robinia pseudo-acacia			+-1	II			+	I	+	I							+	I
Salix fragilis	+-1	I							+	I								
Staphylea pinnata									+	I								
Tilia cordata									+-2	II								
Tilia platyphyllos			1	I			2	I	+-2	I								
Tilia tomentosa							+-2	I	+-2	II								
Ulmus glabra	+-1	I													+-1	I		
Ulmus laevis			+-3	III			+-3	II	+-2	IV							+-3	III
Ulmus minor			+-2	III			+-3	V	+-3	IV	+-2	I	+-1	III	+-2	III	+-2	V
Vitis sylvestris			+	I														
Vitis vulpina							+	I										
shrub layer (B1)																		
Acer campestre			+-4	V			+	I	+-3	V	+-1	I	+-3	V	+-2	III	+-3	V
Acer negundo			+-3	I			+-1	II										
Acer platanoides			+	I	1	I	+	I	+-2	I							+	I
Acer pseudo-platanus			+-3	I													+	I
Acer tataricum	1	I	+-2	II	1-2	III	+	I	+-2	III	+-2	III	+-3	V	+-1	III	+-3	III
Ailanthus altissima			+	I														
Amorpha fruticosa			+	I														
Calystegia sepium	+-1	I																
Carpinus betulus									+	I			+	IV	+-1	II	+-1	II
Celtis australis											1	I						
Celtis occidentalis			+	I			+	I										
Cerasus avium	1	I							+	I							+	I
Clematis vitalba	1	I	+-1	I														
Cornus mas			+-2	I					+-4	II	1	I						
Cornus sanguinea	+-1	I	+-3	III	1-3	IV	+-3	V	+-3	V	+-3	III	+-2	III	+-4	IV	+-4	V
Corylus avellana	1	I	1	I	1	III	+-4	IV	+-4	V	1-2	II	+-3	II	1-2	I	+-1	I
Crataegus monogyna	+-1	I	+-3	IV	+-1	III	+-3	V	+-3	V	+-2	III	+	IV	+	II	+-2	III
Crataegus oxyacantha			+	I							+-2	I	+-1	IV	+-1	II	+-2	III
Deutzia scabra							+	I										
Euonymus europaea	+-1	I	+	II	1	I	+	II	+	III	+-2	III	+	IV	+-1	II	+-1	III
Euonymus verrucosa					1	I	+	I	+	I								
Frangula alnus			+	I	1	III	+	II	+	II	+-1	II	+	V	+-2	II	+	I
Fraxinus angustifolia ssp. pannonica			+-3	IV			+-2	IV	+-4	IV	+-1	I	+	II	+-1	II	+-2	V
Fraxinus pennsylvanica			+	I			+-1	I	+	I			+	I			+	I
Hedera helix			+	I					+	II			+	I			+	I

Humulus lupulus	1	II	+	I			+	I	+	I							+-1	I
Juglans nigra																	+	I
Juglans regia									+	I							+	I
Ligustrum vulgare	+-1	III	+-1	II	1	II	+-3	V	+-2	III	+-2	II			+	II	+	I
Malus sylvestris			+	I					+	I	+-1	I	+	I			+	I
Morus alba			+	I													+	I
Padus avium	1	I	+-3	I			+	I	+-1	I							+-3	III
Padus serotina									+	I								
Populus × canescens											+	I			+	I		
Populus alba			+	I			+	II	+	II	1	I						
Populus tremula							+	I	+	I	+-1	I	+	II	+-1	I	+	I
Prunus spinosa			+-2	III	1	I	+	I	+	I	+-2	II	+	II	+-1	III	+	I
Pyrus pyraster			+	I			+	II	+	I	+-1	I	+	I	+-1	I	+	I
Quercus cerris			+	I														
Quercus robur							+	I	+	I	+-1	I			+-1	II	+	I
Rhamnus catharticus			+	I	1	I	+	III	+	I	+	I	+	I			+	I
Ribes rubrum			+	I					+	I								
Ribes uva-crispa			+	I			+	I										
Robinia pseudo-acacia			+	I					+	I					+-1	I	+	I
Rosa canina agg.							+	I	+	I	+-1	I			+	I	+	I
Rubus caesius											+-1	II			+-3	IV	+	I
Rubus hirtus											+	I						
Salix alba											1	I						
Salix caprea											1	I					+	I
Salix cinerea					1	I					+-2	I						
Sambucus nigra	+-3	III	+-3	V	1	I	+-1	III	+-3	III	1-2	II	+	I	+	I	+-3	III
Sorbus aucuparia											+	I						
Staphylea pinnata					1-2	I			+-3	II	1-3	I						
Tilia cordata									+-2	III								
Tilia platyphyllos							+-1	I	+-1	I	1	I						
Tilia tomentosa							+	I	+-2	II							+	I
Ulmus glabra									+	I	+	I			+-1	I		
Ulmus laevis			+-2	II			+	I	+-2	III					+-1	I	+-2	III
Ulmus minor			+-2	III			+-2	IV	+-2	V	+-1	II	+-2	III	+-3	IV	+-3	V
Viburnum lantana															2	I		
Viburnum opulus	+-1	I	+-1	I	1	III	+	I	+	I	+-2	I	+	I	1	I	+-1	I
Vitis sylvestris	+-1	I																

Vitis vulpina			+	I			+	I										
saplings (B2)																		
Acer campestre			+-2	V			+	I	+-1	V	+	I	+-2	V	+-1	III	+-1	V
Acer negundo			+	I			+	III	+	I							+	I
Acer platanoides			+	I			+	I	+-1	I							+	I
Acer pseudo-platanus			+	II					+	I							+	I
Acer tataricum			+	II			+	I	+-1	II	+	I	+-1	V	+-1	I	+	III
Aesculus hippocastanum			+	I													+	I
Ailanthus altissima			+	I					+	I								
Carpinus betulus							+	I	+	I	+	I	+	II	+-1	II	+	III
Celtis occidentalis			+	I			+	II										
Cerasus avium			+	I			+	II	+	II							+	II
Clematis vitalba			+-1	II													+	I
Cornus mas									+-1	I								
Cornus sanguinea			+-1	IV			+-2	V	+-1	V	+-1	I	+-2	V	+-1	I	+-2	V
Corylus avellana			+	I			+	IV	+	IV			+	III			+	I
Crataegus monogyna			+	IV			+	V	+	IV	+	I	+	IV	+	I	+	III
Crataegus oxyacantha			+	I							+	I	+	IV	+	I	+	III
Euonymus europaea			+	V			+	IV	+-1	V	+-1	I	+-1	V	+	II	+-2	V
Euonymus verrucosa							+	I	+	I								
Frangula alnus							+-1	II	+	I	+	I	+	V	+	I	+	I
Fraxinus angustifolia ssp. pannonica			+-2	V			+-2	V	+-2	V	+-1	I	+-1	III	+-1	II	+-2	V
Fraxinus excelsior			+	I														
Fraxinus pennsylvanica							+	I					+	I			+	II
Gleditsia triacanthos			+	I														
Hedera helix			+	II	1-3	II			+-4	II			2	I	+	I	+	II
Juglans nigra			+	I													+	I
Juglans regia							+	I	+	I							+	I
Ligustrum vulgare			+	II			+-2	V	+-1	IV	+	I	1	II	+	I	+	II
Malus sylvestris			+	I			+	I	+	I			+	II	+	I	+	I
Morus alba			+	I													+	I
Padus avium			+-1	I			+	I	+-1	I			+	II			+-1	II
Padus serotina							+	I	+	I								
Parthenocissus quinquefolia			+	I			+	I	+	I							+	I
Parthenocissus tricuspidata											+-2	I			+	I		
Populus × canescens											+	I			+	I		
Populus alba			+	I			+	III	+	II	1	I						

Populus tremula							+	I	+	II	+	I	+	IV			+	I
Prunus spinosa			+-1	IV			+	III	+	I	+	I			+	II	+	II
Pyrus pyraster			+	I			+	II	+	I			+	II	+	I	+	I
Quercus cerris			+	II					+	I							+	I
Quercus petraea agg.			1	I														
Quercus robur			+	III			+	IV	+	IV	+-1	II	+	III	+-1	III	+	IV
Quercus rubra									+	I								
Rhamnus catharticus			+	II			+	III	+	II					+	I	+	I
Ribes rubrum			+	I			+	I	+	I								
Ribes uva-crispa									+	I								
Robinia pseudo-acacia			+	II			+	I	+	II	+	I					+	I
Rosa canina agg.	1	I	+	I			+	I	+	I			+	IV			+	I
Rosa dumalis agg.	1	I																
Rosa tomentosa agg.	+-1	I																
Rubus caesius	+-1	IV	+-2	V	1-4	IV	+-1	V	+-2	V	1-2	II	+-1	IV	2-3	I	+-3	V
Rubus fruticosus agg.																	+	I
Sambucus nigra			+-1	V			+	III	+	III			+	V	+	I	+	III
Staphylea pinnata									+-1	II								
Tilia cordata									+	II								
Tilia platyphyllos			+	I			+-1	I	+	I								
Tilia tomentosa			+	I			+	I	+	II							+	I
Ulmus glabra															+	I		
Ulmus laevis			+	II			+	I	+	II							+	II
Ulmus minor			+-2	IV			+-1	V	+	V	+-1	I	+-1	IV	+-1	II	+-2	V
Urtica dioica									+	I								
Viburnum opulus			+	I			+	V	+-1	IV	+	I	+	III			+	I
Vitis sylvestris					1	I												
Vitis vulpina			+	I													+	I
herbaceous layer (C)																		
Abutilon theophrasti	+-1	I																
Achillea millefolium s.str.											1	I						
Achillea ptarmica											1	I						
Actaea spicata					1	I			+	III	1	I						
Aegopodium podagraria			+-3	I	+-5	III	+-5	I	+-3	III	2-5	I			+-5	II	+-4	IV
Aethusa cynapium			+	I											+	I	+	II
Agrimonia eupatoria	+-1	I													+	I		
Agropyron caninum	1-4	III	+-1	IV	1	I	+-1	IV	+-1	II	+-1	I	+	II				

Agropyron repens											1-2	I						
Agrostis stolonifera					1-2	I					1-3	II			+	I	+	I
Ajuga genevensis											1	I						
Ajuga reptans	+-3	III	+-1	III	1-2	I	+-1	I	+-1	IV	+-3	III	+	V	+-2	III	+	V
Alisma plantago-aquatica					1	I					1	I						
Alliaria petiolata	+-1	II	+-2	V	1	I	+	IV	+-2	V	+-1	I	+	V	+-1	II	+	V
Allium oleraceum			+	I			+	I	+	I							+	I
Allium scorodoprasum	+-1	II	+	II			+	I	+	I	+-1	I						
Allium ursinum					1-5	II			+-5	III					+	I	+-5	III
Alopecurus geniculatus											1	I						
Alopecurus pratensis	+-3	I									+-4	II			5	I		
Althaea officinalis	+-1	I			1	I												
Anemone nemorosa			+	I							+-1	I					+-4	I
Anemone ranunculoides	+-2	I	+-1	II	1-2	II			+-2	III	1-2	I			+-1	I	+-2	III
Angelica palustris							+	I	+	I								
Angelica sylvestris	1	I	+	I	1	II	+	III	+	I	+-2	I			+-1	II	+	I
Anthoxanthum odoratum											1	I						
Anthriscus cerefolium ssp. trichosperma	+-1	I	+	I			+	I	+-1	I								
Anthriscus sylvestris							+	I							+	I	+	I
Aquilegia vulgaris			+	I														
Arabidopsis thaliana											1	I						
Arctium lappa	+-1	III	+	I			+	I									+	I
Arctium minus			+	IV			+	IV	+	III							+	I
Arctium nemorosum					1	I												
Aristolochia clematitis	+-1	II	+	IV							+	I	+	I	+	I	+	I
Arrhenatherum elatius	1	I																
Arum orientale ssp. besseranum	+-1	III	+-1	V							1	I						
Asarum europaeum			+	I	1-4	I			+	I							+-1	II
Astragalus glycyphyllos	+-1	II	+	I	1	I	+	I	+	I	+-1	I			1	I		
Athyrium filix-femina			+	I					+	I	1-2	I	+	II			+	I
Atropa bella-donna																	+	I
Ballota nigra	+-1	I													+	I		
Betonica officinalis							+	I	+	I	+-2	I						
Brachypodium pinnatum	+	I							+-1	II								
Brachypodium sylvaticum	1	I	+-2	V	1	II	+-4	V	+-2	III	+-3	II	+-1	V	+-3	III	+	V
Bromus mollis											1	I						
Bromus ramosus agg.	+-1	I	+-1	II					+-1	III	1	I						

Bromus sterilis									+	I								
Bryonia alba			+	I														
Calamagrostis arundinacea											+-1	I						
Calamagrostis canescens							+	I										
Callitriche palustris											1	I						
Caltha palustris					1-3	II			+	I	+-2	I					+	I
Calystegia sepium					1	I			+	I					1	I	+	I
Campanula glomerata	+-1	I					+	I			1	I						
Campanula patula											+-1	I						
Campanula persicifolia									+	I	1	I						
Campanula trachelium			+	I	1	I	+-1	II	+-1	II	1	I						
Cannabis sativa							+	I										
Cardamine impatiens													+	I			+	I
Cardamine pratensis	+	I			1	I	+	I	+	I	+-2	I					+	I
Carduus acanthoides											+-1	I						
Carduus crispus	+-1	II	+	III	1	I	+	I			1	I					+	I
Carex acutiformis					1-5	II	+	II	+	I	+-4	II	+	II	+	I	+	II
Carex brizoides			1	I	1-3	I			+	I	+-5	II	+	II	+-5	II	+-3	III
Carex cuprina							+	I	+	I								
Carex digitata					1	I												
Carex disticha											1	I						
Carex divulsa	+-1	I	+-1	IV			+	II	+	II	1	I	+-1	III			+-3	II
Carex elata																	+	I
Carex elongata											1	I						
Carex gracilis									+	I					1	I		
Carex hirta											1	I			+	I		
Carex leporina					1	I					1	I						
Carex melanostachya											1-5	I						
Carex michelii					1	I	+	I										
Carex pairae	1	I			1-2	II			+	I	+	I			+	I		
Carex pallescens											+-2	I			+	I		
Carex pilosa					1	II			+-1	I							+	I
Carex praecox	1	I									1	I						
Carex remota	1	I	+	I	1-5	II	+-2	I	+	III	+-3	II			+-4	I	+	I
Carex riparia					2	I	+-1	II	+-1	I							+	I
Carex spicata	+-1	I					+	I										
Carex sylvatica	1-2	II	+-1	III	1-3	I	+-1	III	+-1	III	1	I	+	I			+	II

Carex tomentosa											+-1	I						
Carex vesicaria											2	I						
Carex vulpina	1	I			1	I					2	I						
Centaurea indurata											1	I						
Centaurea pannonica											1-2	I						
Cephalanthera damasonium							+	I										
Cephalanthera longifolia							+	I							+	I		
Cephalaria pilosa	+-1	I	+	I													+	I
Cerastium fontanum											1	I						
Cerastium sylvaticum									+	I	+	I	+	II	+	I	+-1	III
Cerinthe minor	+-1	I																
Chaerophyllum aromaticum									+	I								
Chaerophyllum bulbosum	+-4	I			1	I									1	I		
Chaerophyllum temulum	+-3	I	+-1	V	1	II	+-3	IV	+-2	IV	1	I	+	III	+	I	+	III
Chelidonium majus			+	II			+	II	+-1	IV	1	I					+	II
Chenopodium polyspermum											+	I						
Chrysanthemum leucanthemum agg.											1	I						
Chrysanthemum serotinum											+	I						
Cichorium intybus															+	I		
Circaea lutetiana	+-1	IV	+-3	V	1-3	II	+-2	III	+-3	V	+-5	II	+-2	IV	+	II	+-2	V
Cirsium arvense															+	I		
Cirsium canum					1	I	+	I			1-2	I						
Cirsium pannonicum											1	I						
Cirsium rivulare							+	I										
Cirsium vulgare											1	I						
Clematis recta									+	I								
Clinopodium vulgare	+-1	I	+	I	1	I	+	I	+	I	+-2	I					+	I
Colchicum autumnale					2	I	+	I	+	II	+-1	I					+	I
Conium maculatum	1	I									1	I						
Convallaria majalis	1-5	III	+-1	I	1-5	IV	+-4	IV	+-4	V	+-4	III	+-2	V	+-2	III	+-1	II
Coronilla varia	+-1	I																
Corydalis cava	+-3	III	+-5	V			2-3	I	+-1	I	1-3	I	+	V			+-5	III
Corydalis solida			+-1	I	1	I	+-2	I										
Crepis praemorsa					1	I												
Crepis tectorum											1	I						
Crocus heuffelianus																	+	I
Cruciata glabra					1	I	+	I	+	I	+-1	II			+	I		

Cruciata laevipes	+-1	I	+	I	1	I	+	I			+-1	I					+	I
Cruciata pedemontana	+-1	I																
Cucubalus baccifer	+-1	II	+-1	V	1	I	+	V	+	III	+	I	+	III	+	I	+	I
Cuscuta europaea			+	I														
Cynoglossum officinale			+	I			+	I										
Dactylis polygama	+-3	II	+-1	V	1	I	+-1	III	+	III	+-2	II	+	IV	+-4	II	+	III
Daucus carota ssp. carota											+-1	I						
Dentaria bulbifera					1	II	2-4	I	+-4	III	1	I						
Deschampsia caespitosa	1	I	+	I			+-2	III	+-1	II	+-3	II	+	II	+-3	II	+	II
Dianthus armeria	+-1	I																
Dipsacus laciniatus	+-1	I									1	I						
Dipsacus sylvestris	+-1	I													+	I		
Dryopteris carthusiana s.str.							+	I	+	I			+	I			+	I
Dryopteris expansa																	+	I
Dryopteris filix-mas s.str.	1	I	+	I					+-1	II	1	I			+	I	+	I
Echinocystis lobata							+	I							+-1	I		
Eleocharis palustris s.str.											1-2	I						
Epilobium angustifolium											1-2	I						
Epilobium hirsutum											1	I						
Epilobium montanum					1	I					+-1	I						
Epilobium obscurum											1	I						
Epilobium parviflorum					1	I					2	I						
Epilobium tetragonum									+	I	1	I			+	I		
Epipactis helleborine agg.			+	I	1	I	+	II	+	III							+	I
Epipactis purpurata					1	I												
Equisetum arvense	+	I			1	I	+	III	+	I								
Equisetum hyemale					1	I	+	I	+-5	I								
Equisetum palustre					1	I												
Erigeron canadensis											+	I			+	I		
Erysimum cheiranthoides	+-1	I																
Eupatorium cannabinum	+-1	I	+	I	1	II	+	II	+	I	1	I			+	I		
Euphorbia amygdaloides					1	II			+	II							+	I
Euphorbia angulata					1	I					1	I						
Euphorbia lucida					1	I												
Euphorbia platyphyllos											+	I						
Euphorbia salicifolia											1	I						
Euphorbia stricta	1	III																

Euphorbia villosa					1	I					1	I						
Euphorbia virgata											1	I						
Fallopia dumetorum	+-1	I	+	IV	1	I	+	II	+	III	+	I	+	IV	+	I	+	III
Festuca gigantea	+-1	II	+	IV	1	I	+-1	IV	+	III	+-1	I	+	III	+	I	+	V
Festuca pratensis											1	I						
Festuca pseudovina															2	I		
Festuca rupicola															+	I		
Ficaria verna	+-3	II	+-4	V	1-2	I	+	I	+-4	V	1-3	III	+-2	V	+-2	I	+-3	V
Filipendula ulmaria					+-1	I	+	II			+-2	I			+-1	I	+	I
Filipendula vulgaris							+	I									+	I
Fragaria vesca	+-1	I					+	I	+	I	1-2	I			+	II	+	I
Fragaria viridis	+-1	I																
Fritillaria meleagris											+	I			+	I	+	II
Gagea lutea			+-1	III							+	I	+	III	+	I	+-1	IV
Gagea minima																	+	I
Gagea pratensis							+	II	+	I								
Gagea spathacea													+-2	V			+-3	III
Galanthus nivalis											1-2	I					+-1	I
Galega officinalis	1	I							+	I	1	I						
Galeobdolon luteum			1-4	I	1-2	II			+-2	II					+	I	2-3	I
Galeopsis bifida			+	II					+	I	+	I	+	II			+	I
Galeopsis ladanum	1	I																
Galeopsis pubescens	+	I			1	I	+	III	+	III	+-1	I	+	III			+	I
Galeopsis speciosa	1	I	+	I			+	I	+-1	I	+-2	II	+	IV	+	I	+	IV
Galeopsis tetrahit																	+	I
Galium aparine	1-4	IV	+-2	V	1-2	III	+-2	V	+-1	V	+-2	II	+	V	+-2	II	+-1	V
Galium mollugo	+-1	I			1	I	+	I			+-1	I						
Galium odoratum	+	I	+-1	I	5	I			+-2	II	1-2	I	+-1	IV	+-3	I	+-1	III
Galium palustre	1	I			1	I	+	I	+	I	+-1	II					+	I
Galium rivale	+	I			1	I												
Galium rubioides	1	I			1	I					1	I			+	I		
Galium uliginosum											1	I						
Galium verum	+-1	I									1	I						
Genista tinctoria ssp. elatior	1	I									+	I						
Geranium divaricatum					1	I												
Geranium palustre					+-1	II	+	II	+	I	2	I						
Geranium phaeum											1-2	I						

Geranium robertianum	+-1	II	+-1	IV	1	I	+-1	IV	+-2	V	+-2	II	+	III	+	I	+-1	III
Geum urbanum	+-1	III	+-1	V	1	II	+-1	V	+-1	V	+-2	IV	+	V	+-1	IV	+-1	V
Gladiolus imbricatus											+-1	I						
Glechoma hederacea s.str.	+-3	II	+-1	III			+	III	+	I	+-2	II	+-2	V	+-2	III	+-3	V
Glechoma hirsuta					1	I	+	I										
Glyceria maxima s.str.											+-3	I						
Glyceria plicata											1-2	I						
Gnaphalium uliginosum											1	I						
Gratiola officinalis											1	I						
Gypsophila muralis											1	I						
Helictotrichon pubescens											1	I						
Heracleum sphondylium					1	II	+	II	+	II	+-1	II			1	I	+	I
Hesperis sylvestris	+-1	I																
Hieracium floribundum											1	I						
Hieracium sabaudum agg.											1	I						
Hieracium umbellatum agg.											+	I			+	I		
Hordelymus europaeus									+	I								
Humulus lupulus			+	I	1	I	+	II	+	I	1-2	I			+-2	I	+-1	II
Hypericum hirsutum	+-1	II									+-1	I			+	I	+	I
Hypericum perforatum	+-1	I									1	I						
Hypericum tetrapterum	1	I									1-2	I			+	I	+	I
Impatiens noli-tangere									+-3	I	1-5	II					+	I
Impatiens parviflora															+	I		
Inula britannica											1-2	I						
Inula helenium											1	I						
Inula hirta											1	I						
Inula salicina											1	I						
Iris pseudacorus					1	I	+	I	+	I	+-1	I			+	I	+	I
Isopyrum thalictroides					1-2	II			+-1	I	1	I					+	I
Juncus compressus											1-2	I						
Juncus effusus											+-2	I					+	I
Knautia arvensis											1	I						
Lactuca quercina ssp. quercina							+	III										
Lactuca quercina ssp. sagittata					1	I	+	I			1	I						
Lactuca serriola																	+	I
Lamium album							+	I										
Lamium maculatum	1	II	+-2	III											+-1	I	+-1	III

Lamium purpureum	+-4	V	+	II					+	I								
Lapsana communis	+-1	II	+	V	1	I	+	III	+	IV	+-1	II	+	II	+	I	+	III
Lathraea squamaria					1	I			+	I	1	I						
Lathyrus niger											1	I						
Lathyrus pratensis	+-1	I			1	I	+	I			1-2	I			+	I		
Lathyrus sylvestris	+										+	I						
Lathyrus vernus									+	I	+	I			1	I		
Leontodon autumnalis											+-1	I						
Leontodon hispidus											1	I						
Leonurus cardiaca	+-1	I	+	I			+	I										
Leonurus marrubiastrum	+-1	I																
Leucojum aestivum	1	I			1	I			+	I	1-2	I						
Leucojum vernum																	+-1	I
Lilium martagon					1	II	+	I	+-1	II	1	I						
Linaria vulgaris											1	I						
Listera ovata			+	I	1	II	+	II	+-1	IV	1-2	I						
Lithospermum officinale	+-1	I																
Lotus corniculatus											1	I						
Luzula campestris											1	I						
Lychnis flos-cuculi					1	I	+	II			+-1	II			+	I	+	I
Lycopus europaeus					1	II	+	I	+	I	+-1	I	+	I	+-1	I	+	I
Lycopus exaltatus	+-1	I			1	I					1-2	II						
Lysimachia nummularia	1	I	+	II	1-2	II	+-1	IV	+	III	+-2	IV	+	V	+-3	IV	+-1	III
Lysimachia vulgaris					1	I			+	I	+-2	I	+	II	+	I	+	I
Lythrum salicaria					1	II					+	I			+	I	+	I
Lythrum virgatum											1	I						
Majanthemum bifolium					1	II			+	II					+	I	+	I
Malva sylvestris											1	I						
Melampyrum bihariense											1	I						
Melampyrum nemorosum					1	I			+	I			+	V	+-1	I	+	I
Melampyrum nemorosum ssp. debreceniense											1-2	I						
Melandrium album											1	I			+	I		
Melandrium noctiflorum			+	I														
Melica altissima	+-4	II	+	II														
Melica picta					1	I			+	I	+-1	I						
Melica uniflora			+-1	I													+	I
Melilotus officinalis	+-1	I																

Melissa officinalis			+	I														
Melittis carpatica					1	I			+	I	1	I						
Mentha aquatica					1-2	II			+	I	1-2	I						
Mentha longifolia											2	I						
Mercurialis perennis					1	I			+	I								
Milium effusum			+	I	1	II	+	II	+	V	1	I	+	II	+	I	+	II
Moehringia trinervia	+-3	II	+	V	1-2	I	+	IV	+	V	+-1	II	+	III	+	I	+-1	IV
Molinia coerulea											1	I						
Muscari comosum											1	I						
Mycelis muralis			+	I			+	II	+	II	1	I						
Myosotis arvensis											+-1	I						
Myosotis palustris					1	I			+	I	+-2	I						
Myosotis sparsiflora	+-1	I	+	I	2	I	+	I			1-2	I						
Myosoton aquaticum	+-1	I	+	I	1	I	+	I	+	I	+-1	I			+	I	+	I
Neottia nidus-avis					1	I			+	I	1	I			+	I		
Odontites vulgaris											2	I						
Oenanthe aquatica					1	I					1	I					+	I
Oenanthe banatica					2	I			+	I	+-5	II	+	III	+	I	+	II
Oenothera biennis	1	I																
Ononis arvensis											+-1	I						
Ophioglossum vulgatum			+	I			+	II			+	I			+	I		
Orchis militaris					1	I	+	I										
Ornithogalum boucheanum							+	I	+	I							+	I
Ornithogalum umbellatum	1	I	+	I			+	II	+	I			+	III	+	I	+	II
Oxalis fontana	1	I															+	I
Paris quadrifolia					1-2	II			+-2	II								
Pastinaca sativa									+	I								
Peucedanum alsaticum	+-1	I																
Peucedanum oreoselinum	1	I									1	I						
Peucedanum palustre					+-1	I												
Phalaroides arundinacea											+	I					+	I
Phragmites australis					+	I									+	I		
Physalis alkekengi									+	I								
Phytolacca americana			+	I														
Pimpinella saxifraga											1	I						
Plantago major	1	I									1	I						
Platanthera bifolia	+	I	+	II			+	I	+	I	+-1	I	+	IV	+	I	+	I

Platanthera chlorantha	+-1	I			1	I					1	I						
Poa annua									+	I								
Poa nemoralis	+-1	I	+	I	1	II	+	I	+	I	+-2	I	+	III			+	I
Poa palustris							+	I	+	I	+-4	I			+-5	II		
Poa pratensis s.str.											1-2	I						
Poa trivialis	1	II	+	II	1	I	+	I	+	I	1-2	I					+	III
Podospermum canum	+-1	I																
Polygonatum latifolium	+-3	III	+-2	V	3	I	+-4	IV	+-1	II	1	I	+-4	IV			+	I
Polygonatum multiflorum					1	III	+	II	+-1	V	+-2	II	+-2	V	+-1	II	+-1	V
Polygonatum odoratum					1	I	+	I			+-1	I			+-1	I		
Polygonum amphibium											1	I						
Polygonum aviculare s.str.											+	I						
Polygonum hydropiper	1	II													+	I	+	I
Polygonum lapathifolium											1-2	I						
Polygonum minus	+	I									+	I						
Polygonum mite			+	I													+	I
Polygonum persicaria											+	I						
Polypodium vulgare											1	I						
Polystichum aculeatum									+	I								
Potentilla alba											1	I						
Potentilla argentea s.str.	+-1	I									1	I						
Potentilla erecta											1	I						
Potentilla reptans					1	I												
Primula veris					+-2	I	+	III	+	I								
Primula vulgaris											+	I						
Prunella vulgaris	+-1	II			1	I					+-1	I			+-1	I	+	I
Pteridium aquilinum											1	I						
Pulicaria vulgaris											1	I						
Pulmonaria mollis					2	I	+-1	II	+	I	+-1	I			+	I		
Pulmonaria officinalis	+-3	III	+-2	III	1	I	+	I	+-1	IV	1-2	I			+-1	II	+-1	IV
Ranunculus acris							+	I							+	I		
Ranunculus arvensis											1	I						
Ranunculus auricomus agg.			+	I	1	II	+	II	+	II	+-1	II			+	II	+	II
Ranunculus cassubicus	1	I			1	II			+	I	1	I					+	I
Ranunculus polyanthemos											1	I						
Ranunculus repens					1-2	I	+	I	+	I	+-2	II			+-1	I	+	I
Ranunculus sardous											+	I						

Ranunculus strigulosus											1-2	I						
Rhinanthus borbasii											1	I						
Rorippa austriaca											1	I						
Rorippa × anceps											+-1	I						
Rumex conglomeratus					1	I			+	I								
Rumex crispus											1	I						
Rumex obtusifolius	1	I									+-1	I					+	I
Rumex sanguineus	1	II	+	V	1	II	+	III	+	II	+-2	II	+	II	+-1	I	+	IV
Sagina procumbens											1	I						
Salvia glutinosa					1	I	+	I	+	I								
Sambucus ebulus											1-2	I						
Sanguisorba officinalis											1	I						
Sanicula europaea	1	I			1	I	+	I	+	II	1	I					+	I
Saponaria officinalis											1	I						
Scabiosa ochroleuca											1	I						
Scilla kladnii					+-2	I			+-2	II	1	I			+	I	+-1	I
Scilla vindobonensis	1	I	+-1	II														
Scrophularia nodosa	+-2	II	+	III	1	I	+	IV	+	IV	+-1	II	+	IV	+-1	II	+-1	II
Scrophularia scopolii			+	I														
Scrophularia umbrosa					1	I	+	I	+	I								
Scutellaria galericulata	+-1								+	I	1-2	I						
Scutellaria hastifolia	1	I									1	I						
Sedum maximum									+	I	1	I						
Selinum carvifolia							+	I	+	I	+-1	I						
Senecio erraticus ssp. barbaraeifolius											1	I						
Senecio nemorensis ssp. nemorensis							+	I										
Senecio paludosus											1	I						
Serratula tinctoria	+-1	I					+	I			+-1	I			+	I	+	I
Silene nutans											1	I						
Silene vulgaris											1	I						
Sium latifolium					1	I	1	I			1	I						
Sium sisaroideum					1	I												
Solanum dulcamara			+	I					+	I	1-2	I	+	I			+	I
Solanum nigrum											+	I						
Solidago gigantea ssp. serotina																	+	I
Sonchus arvensis											1-2	I						
Sonchus asper											+	I						

Stachys palustris									+	I	+-2	II	+	II	+-1	II	+	I
Stachys sylvatica	+-1	II	+-1	IV	1	I	+-1	IV	+-2	IV	1-2	II			+-1	I	+-1	IV
Stellaria graminea	+-1	I									1	I						
Stellaria holostea			2	I			+	I	+	I							+	I
Stellaria media	+-5	III	+	I			+	II	+	II	2	I					+	I
Stellaria palustris											+	I						
Stenactis annua	1	I					+	I	+	I					+	I	+	I
Succisa pratensis											1	I						
Succisella inflexa											+	I			+-1	I		
Symphytum officinale	+-1	I	+	I	1-2	I	+	I			+-2	I					+	I
Symphytum tuberosum ssp. angustifolium					+-1	I			+	I	1	I						
Tamus communis			+	I														
Tanacetum vulgare											1	I						
Taraxacum officinale	+-1	II			1	II	+	II	+	I	+-1	I					+	I
Teucrium chamaedrys	1	I																
Teucrium scordium											2	I						
Thalictrum lucidum	+-1	I			1	I					1	I						
Thelypteris palustris					1-2	I												
Torilis arvensis															1	I		
Torilis japonica s.str.	+-1	I	+	II			+	V	+	IV	+	II	+	IV	+-1	II	+	III
Trifolium alpestre											2	I						
Trifolium medium							+	I										
Trifolium pratense									+	I	1	I						
Trifolium repens	+-1	I									1-2	II						
Trollius europaeus					+	I	+	I										
Tussilago farfara									+	I	+-1	I						
Urtica dioica	+-4	IV	+-3	V	1	I	+-2	V	+-1	IV	+-2	II	+	II	+	I	+-1	IV
Valeriana dioica									+	I								
Valeriana officinalis s.str.					1	I	+	I			+-1	I			+	I		
Veratrum album					1	II	+-2	III	+	II	1	I						
Verbascum blattaria	+-1	I																
Veronica chamaedrys	+-2	II	+	I	1	I	+	I	+	II	+-2	II			+	I	+	I
Veronica hederifolia	+-4	II	+-2	V	1	I	+-1	IV	+-1	III	1-3	I	+-1	V	+	I	+	III
Veronica longifolia							+	I			+-1	I			+	I		
Veronica montana																	+	I
Veronica officinalis									+	I								
Veronica serpyllifolia											1	I						

Vicia angustifolia ssp. segetalis	+-1	I																
Vicia cracca	1	I					+	I			1	I						
Vicia dumetorum	1	I	+	I														
Vicia hirsuta	+-1	I									+	I						
Vicia narbonensis ssp. serratifolia	+-1	I																
Vicia sepium	1	I			1	I	+	I	+	I	+-2	II	+	I	+	I	+	I
Vicia tetrasperma	+-2	I																
Vinca minor							3	I			1	I						
Vincetoxicum hirundinaria	+-1	I	+	I			+	I			+-1	I	+	II				
Viola cyanea	+-4	II	+-2	V			+	I	+-2	I	1	I	+	I			+	III
Viola elatior							+	I			1	I						
Viola hirta	1	I			1	I					1	I						
Viola mirabilis					1	II	+-2	I	+-2	III	1-2	I						
Viola montana									+-2	I								
Viola odorata	+	I							+	I							+	I
Viola riviniana											+-1	I						
Viola sylvestris	+-3	II	+-2	V	1	I			+-1	V	+-2	IV	1	V	+-2	IV	+-1	V
Viscaria vulgaris											1	I						

		Bk1		**Bk2**		**TP1**		**TP2**		**Lt**		**Mv**
	A-D	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**
upper canopy layer (A1)												
Acer campestre	1-2	II	1-3	II					+-2	IV	+-2	IV
Acer negundo							3	I	+-1	IV		
Acer platanoides							+-5	II				
Alnus glutinosa	+	I			2	I			+	I		
Carpinus betulus	1-2	I										
Cerasus avium	+	I										
Fraxinus angustifolia ssp. pannonica	3-5	IV	1-4	III	1-3	II	1-4	V	+-4	V	3	V
Fraxinus excelsior	1	I							+-2	I		
Fraxinus pennsylvanica			+-2	II	3	I			+-2	V		
Juglans nigra			2	I								
Loranthus europaeus			+	II								
Pinus strobus	1-2	I										
Populus alba			+-4	III	1-5	II			+-2	V	2	II
Populus nigra					1-5	II						
Populus tremula			+-2	II								

Populus × canadensis			2	I								
Populus × canescens							+-2	I	+	I		
Pyrus pyraster			1	I								
Quercus robur	+-4	II	1-4	IV	1-5	V	+-5	IV	+-5	V		
Robinia pseudo-acacia			+	I								
Tilia cordata			1	I								
Tilia platyphyllos							1	I				
Ulmus laevis	+-1	II	1-2	III	1-3	II	+-3	III	+-2	IV		
Ulmus minor			1	I	1-4	II			+	IV	+-2	V
Viscum album	+	I	+	II								
Vitis vulpina									+-1	I		
lower canopy layer (A2)												
Acer campestre	+-3	II	+-3	IV								
Acer negundo									1	I		
Acer platanoides	2-3	I										
Acer pseudo-platanus	4	I										
Acer tataricum			+-1	IV								
Alnus glutinosa	1	I										
Carpinus betulus			+-1	IV								
Cerasus avium			+	I								
Cornus mas	1	I										
Cornus sanguinea	1	I										
Corylus avellana			+-1	II								
Crataegus monogyna			+	I								
Euonymus europaea	1	I	+	I								
Fraxinus angustifolia ssp. pannonica	+-1	II	+-1	I								
Fraxinus pennsylvanica	+-1	I	1-2	I								
Malus sylvestris			+-2	II								
Morus alba					1	I						
Parthenocissus quinquefolia			+	II								
Pyrus pyraster			1	I								
Quercus robur	+-4	II	+-1	II								
Robinia pseudo-acacia			+	II								
Salix alba	2	I										
Ulmus glabra					2-5	III						
Ulmus laevis	1-3	III	1-3	V								
Ulmus minor			1-3	V								

Vitis sylvestris			+	I	1-3	II						
Vitis vulpina			+-1	I								
shrub layer (B1)												
Acer campestre	+-3	II	+-3	IV							+-2	V
Acer negundo			+	I			+-4	III	+	IV	+	IV
Acer platanoides	+-2	II					1-3	I				
Acer pseudo-platanus	+-2	I			+	I	4	I				
Acer tataricum			+-2	IV								
Amorpha fruticosa	1-4	II	+	II					+-5	V	+-1	V
Berberis vulgaris					+	I						
Carpinus betulus	1	I	+	II			2	I				
Cornus mas	1-3	II			3	I						
Cornus sanguinea	+-2	III	2-3	V	1-3	IV	+-1	III	+	IV	3-4	V
Corylus avellana	+-1	I	1-2	III					+	IV		
Crataegus monogyna	+	I	+-1	III					+	IV	1-3	IV
Crataegus oxyacantha			+	IV							+	II
Euonymus europaea	+	I	+	IV					+	IV		
Frangula alnus			+	II	1	I	+-2	II				
Fraxinus angustifolia ssp. pannonica	1-3	II	+-2	III	1	I	+-3	III	+-4	V	+	II
Fraxinus pennsylvanica	+	I	+-2	II					+	IV		
Humulus lupulus			+	I	1	I					+	II
Ligustrum vulgare	+	I	+	I								
Malus sylvestris			+-2	II							+	IV
Morus alba			+	II	+	I						
Parthenocissus quinquefolia			+	I								
Populus alba			+	I								
Populus tremula			+-1	II								
Prunus spinosa	1	I	+	II								
Quercus robur	+	I			1	I						
Quercus rubra	+	I										
Rhamnus catharticus			1	I								
Ribes rubrum			+	I			+-1	I				
Robinia pseudo-acacia	+-2	II	+	I	+	I	+-1	I				
Salix triandra					2	I						
Sambucus nigra	2-5	II	+	II	1-3	III	+-4	III	+	IV		
Tilia cordata			+	I								
Tilia platyphyllos							2	I				

Ulmus glabra	2	I										
Ulmus laevis	+-4	III	+-1	IV	+-2	II	1-3	IV				
Ulmus minor	+	I	+-2	V			1-2	I	3	I	+-1	V
Viburnum opulus			+	III	1	I	1	I				
Vitis sylvestris			+	II								
Vitis vulpina			+-1	II					+-1	V	+-1	IV
saplings (B2)												
Acer campestre	+-1	II	+	IV			+	I	+	II	+	IV
Acer negundo	+	II	+	I			+-1	III	+-1	III		
Acer platanoides	+-1	I					+-2	II				
Acer pseudo-platanus	2	I					+	I				
Acer tataricum			+-1	III								
Amorpha fruticosa			+	I			1	I	+-5	III	+	II
Carpinus betulus			+	III			1	I				
Celtis occidentalis							+	I				
Cerasus avium							+	I				
Clematis vitalba							+-2	II				
Cornus mas	+	I										
Cornus sanguinea			+-1	III	2	I	+-2	III			+	V
Corylus avellana			+	II			+	I				
Crataegus monogyna			+	I			+	I			+	IV
Crataegus oxyacantha			+	II								
Euonymus europaea	+	I	+	IV			+-2	II			+	II
Frangula alnus	+	I	+	III	1	I	+-1	II	+	I		
Fraxinus angustifolia ssp. pannonica	+-1	III	+	IV			+-3	III	+-4	IV	+	IV
Fraxinus pennsylvanica	+	I	+-1	IV					+-2	IV		
Hedera helix							+-2	IV			+	IV
Juglans nigra			+	I								
Ligustrum vulgare			+	I							+	II
Malus sylvestris			+	I								
Morus alba			+	I	+	I	+	I				
Parthenocissus quinquefolia			+-1	IV			+	I			+	IV
Populus × canescens									+-1	II		
Populus alba	+	I	+	III							+	II
Populus tremula			+	I								
Prunus spinosa			+	II								
Quercus robur	+-1	II	+	V			+	II	+-1	I		

Quercus rubra			+	III								
Rhamnus catharticus			+	I								
Ribes rubrum			+	I			+	I				
Robinia pseudo-acacia	+	I	+	I	+	I	+	I	+-1	II		
Rosa canina agg.			+	II								
Rubus caesius	+-3	V	+-2	V	+-1	III	+-1	IV	+-3	II	+-1	V
Sambucus nigra			+	I	3	I	+-1	V				
Tilia cordata			+	I								
Tilia platyphyllos							+	I				
Ulmus laevis	+-2	III	+	II	+	I	+-1	II				
Ulmus minor			+-2	V					+-3	II	+	II
Viburnum opulus			+	IV			+-1	II				
Vitis sylvestris			+	II	1	I			+	I		
Vitis vulpina			+-1	II			+	I	+-2	II		
herbaceous layer (C)												
Aegopodium podagraria			+-2	III							1	II
Aethusa cynapium			+	II	1	II						
Agropyron caninum									+	I		
Agropyron repens					+	I						
Agrostis stolonifera									+	I		
Ajuga reptans			+	II								
Alisma plantago-aquatica	+	I										
Alliaria petiolata	+	I	+	IV	1-2	I	+-1	V	+-2	I		
Althaea officinalis					+	I						
Angelica sylvestris	+	II	+	IV	1-2	III	+	II				
Anthriscus caucalis	1	I										
Anthriscus cerefolium ssp. trichosperma					+-5	II	1	I				
Anthriscus sylvestris	+	II							1	I		
Arctium lappa			+	II	+-1	II	+	II				
Aristolochia clematitis	+-1	II	+	IV	+-2	IV	+-1	II	+-2	II		
Arrhenatherum elatius					1	I						
Artemisia vulgaris							+	I				
Arum orientale ssp. besseranum							+	I				
Asparagus officinalis					1	I						
Astragalus glycyphyllos					+-1	II	+	I				
Athyrium filix-femina			+	I	1-2	II						
Atriplex prostrata									+	I		

Atropa bella-donna									+	I		
Ballota nigra							+-2	I				
Barbarea stricta			+	I					1	I		
Bidens tripartita	+	I	+	III					1	I		
Brachypodium pinnatum							+-1	I				
Brachypodium sylvaticum	+-1	II	+-1	III	1-5	V	+-3	V				
Bromus ramosus agg.							+	I				
Bromus sterilis					1	I	+	I				
Calystegia sepium			+	I	+	I			+	I		
Campanula trachelium	+	I										
Cardamine impatiens			+	II								
Cardamine pratensis									+-2	I		
Carduus crispus					+-1	II	+	I				
Carex divulsa			+	II	+	I	+	I				
Carex gracilis			+	I					+-1	III		
Carex hirta			+	I								
Carex remota	+-1	III	+	II	2	I	+-1	I				
Carex riparia			+	I								
Carex spicata					1	I	+	I				
Carex sylvatica	1	I	+-1	IV			+	I				
Cephalaria pilosa			+	I	1-2	I	+	I				
Cerastium sylvaticum			+	II								
Chaerophyllum temulum			+	I	1-5	II	+-4	V				
Chelidonium majus	+	I	+	I	+-1	II	+-2	III				
Chenopodium album							+	I				
Chrysanthemum serotinum	1	I	+	II								
Circaea lutetiana	+-2	IV	+-3	V	1-5	V	+-3	V	+-3	III	+	IV
Cirsium arvense	+	I	+	I	1	I	+	I				
Cirsium palustre	+	I										
Cirsium vulgare							+	I				
Conium maculatum					1	I	+	I				
Convallaria majalis	1-3	I	+-4	V	1-5	II	+-3	IV				
Corydalis cava			1-4	III								
Corydalis solida			+-2	II								
Cucubalus baccifer			+	II	+	I	+-1	IV				
Dactylis polygama	+	I	+	III	1	I	+	I				
Deschampsia caespitosa	+	I										

Dipsacus sylvestris	+-1	I										
Echinocystis lobata			+	I								
Epilobium parviflorum							+	I				
Epipactis helleborine agg.							+	I				
Equisetum arvense			+	III	1	II	1	I	+-3	I		
Erysimum cheiranthoides									+	I		
Euphorbia palustris			+	I								
Fallopia dumetorum			+	III	1	I	+-1	II	+-1	I		
Festuca gigantea	1	I	+	IV	1	II	+-1	I				
Ficaria verna			+-4	V								
Gagea lutea			+-1	III								
Galega officinalis			+	I								
Galeopsis pubescens	+	I	+	I	1-2	III	+	I				
Galeopsis speciosa	+	I	+	II	+-2	II	+-1	IV				
Galeopsis tetrahit	+	I										
Galium aparine			+	III	1-3	V	+-4	V	1	I		
Galium mollugo	+	I	+	II								
Galium odoratum	4	I										
Galium palustre	+	I	+	III			+	I	+-2	II		
Genista tinctoria ssp. elatior			+	I								
Geranium robertianum					+-1	IV	+-2	V				
Geum urbanum	+-1	III	+	III	+-1	III	+-3	V	+	I		
Glechoma hederacea s.str.	+-3	IV	+-3	V	+-4	III	+-1	II	+-5	IV	+	IV
Humulus lupulus	+	I	+	III	+-1	I	+-2	II				
Impatiens parviflora			+	I								
Iris pseudacorus	+-1	I	+	IV	+	I	+	I				
Iris sibirica					1	I						
Lactuca quercina ssp. quercina					+	I	+	III				
Lactuca serriola			+	I					+	I		
Lamium album					1	I						
Lamium maculatum	2	I									+	II
Lamium purpureum							+	I				
Lapsana communis			+	III	+-2	III	+-1	II	+-1	I		
Lathyrus niger			+	I								
Leonurus cardiaca					+-1	II	+	I				
Leucojum aestivum			+	III	+-1	II	+	I	+	I		
Lycopus europaeus	+	I	+	II	1	I			+-2	IV		

Lycopus exaltatus			+	I					+	I		
Lysimachia nummularia	+-1	II	+	II	+-1	III	+-2	II	+-1	I	+-1	V
Lysimachia vulgaris	+	I	+	II								
Lythrum salicaria	+	I			1	I						
Melampyrum nemorosum			1	I								
Melandrium album	+	I			+	I						
Melica altissima							+	I				
Mentha aquatica									1-2	II		
Milium effusum			+-1	II								
Moehringia trinervia			+	IV			1-2	I				
Mycelis muralis	+	I			+-1	II	+	I				
Myosoton aquaticum	+	I	+	II	+	I	+-2	II	+	I		
Neottia nidus-avis							+	I				
Oenanthe banatica			+	I								
Onopordum acantium	+	I										
Oxalis fontana	+	I			+	I					+	IV
Phalaroides arundinacea			+	III								
Plantago major							+	I			+	II
Platanthera bifolia			+	II								
Poa angustifolia	+	I										
Poa nemoralis			+	I								
Poa palustris	+	I			1	II						
Poa trivialis			+	III	+	I	+-1	I	+	I		
Polygonatum latifolium	+	I					+-2	III			+	II
Polygonatum multiflorum	+	I	+-1	IV								
Polygonatum odoratum							2	I			+	II
Polygonum amphibium	+	I										
Polygonum hydropiper					1	I			+	I		
Polygonum lapathifolium	+	I										
Polygonum minus					1	I						
Polygonum mite									+-1	II		
Prunella vulgaris					1	I			+-2	II		
Pulmonaria officinalis	3	I	+	III								
Ranunculus auricomus agg.			+	I								
Ranunculus cassubicus			+	II								
Ranunculus repens	+	I	+	I	1	I			+-2	II		
Rumex obtusifolius					1	I						

Rumex sanguineus			+	III			+	I			+	V
Sambucus ebulus					1	I						
Scrophularia nodosa	+	I	+-1	IV	+-1	II	+	II	+	I		
Scutellaria galericulata			+	I					+	I		
Sium latifolium					1	I			+-1	I		
Solanum dulcamara			+	III					+-1	I		
Solidago gigantea ssp. serotina	+	I	+	I	+	I	+-2	II				
Sonchus oleraceus			+	I								
Stachys palustris	+	I	+	III	+-1	II						
Stachys sylvatica	+	I	+	IV			+	I				
Stellaria media	+-3	I	+	I	1	I	+-3	III				
Stenactis annua	+	I	+	I			1	I				
Symphytum officinale			+	III					+-1	II		
Tanacetum vulgare					1	I	+	I				
Taraxacum officinale			+	I	+-1	II	+	I	+-1	II		
Torilis arvensis					1	I						
Torilis japonica s.str.			+	III	+	I	+	I	+-2	I		
Typha latifolia									+	I		
Urtica dioica	+-2	V	+-2	V	1-2	V	+-3	V	+-3	III	+	II
Urtica urens	+	I										
Veronica hederifolia			+	I	1	I						
Veronica officinalis					1	I						
Vicia angustifolia ssp. segetalis	+	I										
Vicia cracca					1	I			+	I		
Vicia dumetorum			+	I								
Vicia sepium			+	I	+	I						
Vincetoxicum hirundinaria			+	I								
Viola cyanea							2	I				
Viola odorata							+-1	II				
Viola sylvestris	+-1	II	+-2	IV	1	I	+	I			+	IV

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Kv1: area of the Körös rivers	71 (AD)		Máthé 1936
Kv2: area of the Körös rivers	50 (AD)		Kevey (unpublished)
Ny1: Nyírség	23 (AD)		Soó 1943
Ny2: Western Nyírség	22 (AD)		Kevey & Papp L. (unpublished)
Ny3: Eastern Nyírség	53 (AD)		Kevey, Lendvai & Papp L. (unpublished)
Sz1: Szatmár plain	45 (AD)		Balázs 1943; Simon 1959; Bodrogközy (unpublished)
Sz2: Szatmár plain	5 (AD)		Kevey (unpublished)
Bg1: Bereg plain	24 (AD)		Simon 1959; Bodrogközy (unpublished)
Bg2: Bereg plain	36 (AD)		Kevey (unpublished)
Bk1: Bodrogköz	11 (AD)		Tuba (unpublished); Cserhalmi, Czóbel, Gál, Nagy J., Szerdahelyi, Szirmai, Tuba & Ürmös (unpublished)
Bk2: Bodrogköz	10 (AD)		Kevey (unpublished)
TP1: section of the Tisza between Tokaj and Polgár	30 (AD)		Ujvárosi 1940; Bodrogközy (unpublished)
TP2: section of the Tisza between Tokaj and Polgár	22 (AD)		Molnár Zs. 1996
Lt: Lakitelek	23 (AD)		Bodrogközy (unpublished); Horváth & Margóczi 1979; Bancsó 1987
Mv: area of the Maros river	3 (AD)		Margóczi (unpublished)

X. 3 *Circaeo-Carpinetum*

		Kv		Ny1		Ny2		Sz1		Sz2		Bg1		Bg2		Bk1		Bk2
	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K	A-D	K
Upper canopy layer (A1)																		
Acer campestre			1	I	+-1	II	1-2	III	2	I			+-2	II	2-3	III	+-1	I
Acer platanoides	1	I			1	I									2-4	II		
Acer pseudo-platanus	1	I																
Betula pendula					+-1	II												
Carpinus betulus	1-3	II	1-3	V	+-5	V	1-5	V	1-4	V	2-4	V	1-4	IV	1-3	IV	3-5	V
Celtis occidentalis															2	I		
Cerasus avium			1	II	+-2	II	1-2	III			+	I	+-1	I				
Fagus sylvatica											+	I	1-3	I			+-1	II
Fraxinus angustifolia ssp. pannonica	+-3	IV	1	I	+-4	III					+	I	+-3	III	3	I	+-1	III
Fraxinus excelsior							1	I							1	I		
Fraxinus pennsylvanica			1	I	+	I												
Hedera helix	+	I			+	I							+	I				
Juglans nigra	+	I			1	I												
Loranthus europaeus					+	I							+	I				
Populus alba	2	I			+-3	I									2	I	1	I
Populus tremula					+-2	I	+	I										
Pyrus pyraster					+	I	1	I					+	I				
Quercus cerris	2-4	I			+-2	I					2	I						
Quercus robur	1-4	V	3	V	+-5	V	+-5	IV	2-4	V	1-4	V	2-5	V	1-3	II	1-4	V
Quercus rubra	+	I			1	I												
Robinia pseudo-acacia			+-1	II	+-1	I							+	I	1-2	II	+	I
Sorbus torminalis									+	II								
Tilia cordata			1	I	+-3	I									3	I	1-2	III
Tilia platyphyllos					1	I											+	I
Tilia tomentosa			1-2	IV	+-3	I							1	I				
Ulmus glabra							1-2	I										
Ulmus laevis	+	I			+-1	II							+	I	2	I	+	I
Ulmus minor					+	I	1-2	I			+-1	II	+	I	4	I	1	I
Viscum album					+	I												
Lower canopy layer (A2)																		
Acer campestre	+-2	III	+-3	V	+-3	IV			+-2	V	+-1	II	+-2	V	2	I	+-2	IV

Acer negundo	+	I																
Acer platanoides	+	I			+	I												
Acer pseudo-platanus	+-3	I																
Acer tataricum	+	I			+-2	II			+	II			+	I				
Alnus glutinosa													+	I				
Betula pendula					+	I												
Carpinus betulus	1-4	V	2-3	V	1-4	V	+-1	I	2-3	V	1-2	V	2-5	V			2-3	V
Celtis occidentalis																		
Cerasus avium			+	III	+-1	I							+	I			+	I
Clematis vitalba					+	I												
Cornus sanguinea					+	I											+	I
Corylus avellana					1	I											+	I
Crataegus monogyna	+	I			+	I												
Fagus sylvatica													1	I				
Fraxinus angustifolia ssp. pannonica	+-2	IV			+-2	II			+	I			+-1	I			+-1	II
Fraxinus pennsylvanica			1	I	+	I												
Hedera helix	+-1	I			+	I											+	I
Malus sylvestris					+	I							+	I			+	I
Padus avium																		
Populus alba	+	I			+	I												
Pyrus pyraster					+-1	I					+	I	+	I				
Quercus cerris	+	I																
Quercus robur	1	I			+	I							+-1	I			+	I
Robinia pseudo-acacia	+	I			+	I							+	I			+	I
Salix caprea					+	I												
Sorbus torminalis									+	I								
Tilia cordata					+-3	I							+	I			+-1	II
Tilia platyphyllos	+-1	I			+-1	I												
Tilia tomentosa	+-1	I	1-3	V	+-2	I							+	I				
Ulmus glabra					+	I												
Ulmus laevis			+	I	+-2	II							+-1	I			+	I
Ulmus minor	+-2	III	+	II	+-1	II			+	III			+-1	II			+	I
Vitis sylvestris					+	I												
Shrub layer (B1)																		
Acer campestre	+-3	III	+-2	V	+-3	V	+	I	+-2	V	+-1	V	+-4	IV	1-2	III	+-2	IV
Acer negundo					+	I												
Acer platanoides	+	II			+	I									+	I		

Acer pseudo-platanus	+	I	+	I	+	I												
Acer tataricum	+	I			+-3	III	+-1	II	+	III	+	I	+-1	I				
Carpinus betulus	+-4	V	+-1	V	+-3	V	+	I	+-2	V	+-1	IV	+-2	IV	+	I	+-1	II
Celtis occidentalis	+	I											+	I	+	II		
Cerasus avium					+	I					+	I						
Cornus mas	+	I			+-2	I			+	I								
Cornus sanguinea	+-1	II	1	I	+-2	III	+-2	IV	+	III	+-1	V	+-3	III	+	I	+-3	V
Corylus avellana					+-2	III	1-2	III	2	I	+	I	+	I			+-1	II
Crataegus monogyna	+-2	IV	+-2	III	+-2	IV	+-2	IV	+	II	+	II	+	II	+-1	I	+	I
Crataegus oxyacantha	+	I			+	I			+	III	+	II	+-1	II			+	I
Euonymus europaea	+	II			+	II	1-2	IV			+	III	+	I	+	I	+	II
Euonymus verrucosa					+	I	1	I										
Fagus sylvatica											+	I			+	I		
Fallopia dumetorum					+	I												
Frangula alnus	+	I	+	I	+	I	1	I					+	I	+	I		
Fraxinus angustifolia ssp. pannonica	+-3	IV	1	I	+-2	III			+-1	IV	+	I	+-1	II	2	I	+-2	IV
Fraxinus pennsylvanica	1	I	+	I	+	I												
Hedera helix	+	II			+	I			+	I			+	I				
Humulus lupulus					+	I												
Juglans nigra	+	I																
Juglans regia																		
Ligustrum vulgare	+	II	1	I	+-1	III	+-2	III	+	I	+-1	III						
Malus sylvestris	+	I			+	I												
Padus avium	+	I			+	I												
Padus serotina			+	II														
Philadelphus coronarius					+	I												
Populus alba					+	I	1	I										
Populus tremula					+	I	1	I			+	I						
Prunus spinosa	+	II			+	I	1	I			+	II						
Pyrus pyraster					+	I									1	I		
Quercus robur											+	I	+	I	+-1	II		
Quercus rubra	+	I																
Rhamnus catharticus					+	I	1	I										
Ribes rubrum					+	I												
Robinia pseudo-acacia	+	I	+	I	+	I					+	I			+-2	II		
Rosa canina agg.											+	I						
Salix caprea							1	I										

Salix cinerea							1	I										
Sambucus nigra	+-3	III	+-2	IV	+-2	II	1	I	+	I			+	I	+-2	III		
Sorbus torminalis									+	I								
Staphylea pinnata					+-4	I	1-2	I										
Tilia cordata					+-2	II	2	I					+	I	1	I	+-2	III
Tilia platyphyllos	+	I			+-2	I	1-2	II									+	I
Tilia tomentosa	+	I	1-3	III	+-2	I							+	I				
Ulmus glabra					+	I												
Ulmus laevis	+	I			+-2	I							+	I			+	I
Ulmus minor	+-2	IV	+	III	+-2	IV			+	III	+-1	III	+	II	+-1	II	+	III
Viburnum opulus	+	I			+-1	I	1	I										
Vitis sylvestris					+	I												
Saplings (B2)																		
Acer campestre	+-1	IV	+	V	+-1	V	+	I	+-1	V	+-1	III	+-1	V	+-3	II	+	V
Acer negundo					+	I									+	I		
Acer platanoides	+	II			+	I									+-3	II	+	II
Acer pseudo-platanus	+	II			+	I									+	I	+	II
Acer tataricum	+	II			+-1	III			+	V	+	I	+	II			+	I
Aesculus hippocastanum	+	I																
Ailanthus altissima																		
Carpinus betulus	+-2	V	+-1	V	+-1	V	+	I	+	V	+-1	IV	+-1	IV	+	I	+	III
Celtis occidentalis	+	I	+	I	+	I									+	I		
Cerasus avium	+	I	+	I	+-1	IV			+	II	+	I	+	III				
Clematis vitalba	+	I			+	I												
Cornus mas					+	I			+	II								
Cornus sanguinea	+	V	1	I	+-1	III	+	I	+	V	+	II	+-1	IV			+-1	V
Corylus avellana	+	I			+	II			+	II			+	I	+	I		
Crataegus monogyna	+	IV	+	III	+	IV	+	I	+	V	+	I	+	IV			+	IV
Crataegus oxyacantha	+	I							+	IV	+	II	+	IV			+	III
Euonymus europaea	+	IV	+	V	+-1	V	+	I	+	V	+	II	+	V	+-1	II	+	V
Euonymus verrucosa					+	I												
Fagus sylvatica													+	I				
Frangula alnus			+	I	+	II	+	I	+	II	+	I	+	I			+	III
Fraxinus angustifolia ssp. pannonica	+-2	V	+	I	+-2	IV			+	V	+	III	+	IV			+-2	V
Fraxinus excelsior															+	I		
Fraxinus pennsylvanica			+	I	+	I									+	I	+	II
Gleditsia triacanthos	+	I			+	I												

Hedera helix	+-3	II			+-2	III			+	III			+-1	II			+	IV
Juglans nigra	+	I	+	I	+	I											+	I
Juglans regia																		
Ligustrum vulgare	+-1	IV	+	I	+-1	IV			+	III	+	I	+	I	+-2	II		
Malus sylvestris	+	I			+	I			+	I			+	I				
Padus avium	+	I			+	I												
Padus serotina			+	III	+	I												
Parthenocissus quinquefolia	+	I			+	I			+	I							+	II
Populus alba	+	I			+	I									+	I	+	I
Populus tremula					+	I	+	I	+	I	+	I	+	I				
Prunus spinosa	+	III			+	I	+	I	+	III	+	I	+	I				
Pyrus pyraster	+	II			+	I			+	I			+	I				
Quercus cerris	+-1	III			+-1	I												
Quercus robur	+	III	+	V	+	IV	+	I	+	III	+-1	V	+	III	+	I	+	IV
Quercus rubra	+	I			+	I							+	I				
Rhamnus catharticus	+	II	+	I	+	II			+	I								
Ribes rubrum	+	I	+	I	+	I												
Robinia pseudo-acacia	+	I			+	II			+	II			+	I			+	III
Rosa canina agg.	+	I	+	I	+	I			+	III			+	I			+	I
Rubus caesius	+-1	V	+	I	+	III	+-1	I	+	V	+	III	+-2	IV	+	I	+	V
Rubus hirtus											+	I						
Sambucus nigra	+	IV	+	V	+	IV			+	III			+	II	1	I		
Sorbus torminalis									+	III								
Staphylea pinnata					+-1	I												
Stellaria media															1	I		
Syringa vulgaris	+	I																
Tilia cordata			+	I	+-1	II							+	I	+-1	I	+-2	IV
Tilia platyphyllos	+	I			+	I											+	I
Tilia tomentosa	+	I	+-1	V	+	II							+	I				
Ulmus glabra					+	I			+	I			+	I				
Ulmus laevis			+	I	+	II							+	I	+	I	+	II
Ulmus minor	+	IV	+	III	+-1	IV	+	I	+	V	+	I	+	IV			+	III
Viburnum opulus	+	I	+	I	+-1	III	+	I	+	I	+	I	+	I			+	V
Vitis sylvestris					+	I							+	I				
Vitis vulpina	+	I																
Herbaceous layer (C)																		
Achillea millefolium s.str.							1	I										

Actaea spicata					+	II	1	I										
Aegopodium podagraria					+-4	I	+-2	II	+-1	II	+	I	+-2	III	1	I	+-2	V
Aethusa cynapium			+	I	+	I												
Agrimonia eupatoria					+	I	+	I										
Agropyron caninum	+-2	III	+-1	V	+-1	II	1	I					+	I				
Agropyron repens							1	I										
Agrostis stolonifera							1-2	I										
Ajuga reptans	+-1	III			+-1	III	+-2	III	+	V	+-1	IV	+	V	+	I	+	V
Alliaria petiolata	+-1	III	+	IV	+-2	V	1	I	+	V			+-3	V	+	III	+	V
Allium oleraceum	+	I			+	I												
Allium scorodoprasum	+	II																
Allium ursinum					+-5	I												
Anemone nemorosa	+	I							2-3	V	+-2	III	+-5	III				
Anemone ranunculoides	+-1	II			+-1	I	1-2	II	+	V			+-3	III	1	I	+-1	III
Angelica sylvestris			+	I													+	II
Anthriscus cerefolium ssp. trichosperma	+	I	+	III	+	I												
Anthriscus sylvestris							1	I							+-1	III		
Arctium minus	+	III	+	II	+	III											+	II
Arctium tomentosum							+-1	I										
Aristolochia clematitis	+	III	+	I									+	I			+	II
Arum orientale	+	IV					1	I							+-2	II		
Asarum europaeum	+	I			+	I	+-2	I	+	II	1	I	+-1	III				
Astragalus glycyphyllos	+	I			+	I	2	I			+	I	+	I				
Athyrium filix-femina	+	I			+-1	II	1	I	+	II	+	I	+	I			+	III
Atriplex tatarica							1	I										
Ballota nigra	+	I	+	I	+	I												
Berteroa incana							1	I										
Betonica officinalis					+	I	1	I										
Brachypodium pinnatum															+	I		
Brachypodium sylvaticum	+-3	V	+-1	V	+-2	V	+-2	III	+	V	+	IV	+-1	V	+-1	II	+	III
Bromus commutatus							1	I										
Bromus ramosus agg.	+-1	IV	+	V	+-1	IV	1	I										
Calystegia sepium							1	I										
Campanula patula					+	I	1	I										
Campanula persicifolia					+	I												
Campanula trachelium					+	I	1	I									+	III
Cannabis sativa																		

Cardamine impatiens			+	I	+	I							+	II			+	V
Cardamine pratensis													+	I				
Carduus acanthoides							1	I										
Carduus crispus					+	I	1	I										
Carduus hamulosus							1	I										
Carex brizoides	+	I			+-2	I	+	I	+	III	+	I	+-1	IV			+	I
Carex divulsa	+-1	V	+	IV	+	II	1	I	+	II			+	I				
Carex hirta							+-1	I										
Carex michelii			+	I														
Carex montana							1	I										
Carex pairae	+	I			+	I	+	I			+-5	III						
Carex pallescens							1	II										
Carex pilosa					+-1	I	1-5	I			1-3	I	+-2	II			+	II
Carex remota					+	II	1-2	II			+	I					+	V
Carex spicata					+	I												
Carex sylvatica	+	III	+	III	+-1	IV	+-3	III	+	V	+-1	III	+	III			+	V
Centaurea indurata							1	I										
Centaurea pannonica							1	I										
Cephalanthera damasonium			+	I	+	I												
Cephalanthera longifolia	+	I	+	I														
Cephalaria pilosa																		
Cerastium fontanum							1	I										
Cerastium sylvaticum									+	II			+	I				
Chaerophyllum aromaticum					+	I												
Chaerophyllum bulbosum													+	I				
Chaerophyllum temulum	+	IV	+	V	+-2	IV	1	I	+	V			+-1	IV			+	II
Chelidonium majus	+	I	+	V	+	III							+	I	+-2	IV		
Circaea lutetiana	+-4	V	+	V	+-2	V	1	II	+-1	IV			+-2	V			1-2	V
Cirsium pannonicum							2	I										
Cirsium vulgare							1	I										
Clinopodium vulgare	+	II	+	I	+	I	1-2	I										
Colchicum autumnale					+	I												
Convallaria majalis					+-3	V	+-2	II	+	III	1-2	I	+-1	III			+-2	V
Corydalis cava	+-5	IV	1-3	V	+-3	II	1-4	III	+-5	IV					1-5	III	+-4	V
Corydalis solida	+	I	+-2	III	+-1	I	1	I									+-1	IV
Crocus heuffelianus									+-2	V			1-2	I				
Cruciata glabra							1-2	II	+-1	V								

Cruciata laevipes	+	I			+	I	1-2	I										
Cucubalus baccifer	+	IV	+	IV	+	III			+	II			+	I				
Cystopteris fragilis							1	I										
Dactylis glomerata agg.	+-2	V	+-1	V	+-1	III	+-4	IV	+	V	+	I	+	III	+	III	+	II
Dentaria bulbifera	+	I			+-5	III	1-3	II	+	I	+	I						
Deschampsia caespitosa			+	I	+	I	1	I	+	I	+	I	+	I				
Digitalis grandiflora					+	I												
Dryopteris carthusiana s.str.					+	II							+	I				
Dryopteris expansa									+	I								
Dryopteris filix-mas s.str.			+	I	+-1	IV	1	I	+	II	+	I	+	II				
Echinocystis lobata					+	I												
Epilobium angustifolium							1	I										
Epilobium hirsutum							1	I										
Epilobium montanum					+	I	1	I										
Epipactis helleborine agg.	+	I			+	III	+-1	I			+	I					+	I
Epipactis purpurata							1	I					+	I				
Equisetum arvense					+	I	1	I										
Erodium cicutarium															+	I		
Eupatorium cannabinum					+	I												
Euphorbia amygdaloides					+	I	+	I	+	II	+	I	+	II			+	III
Euphorbia salicifolia							1	I										
Fallopia dumetorum	+	II	+	V	+-1	IV			+	III	+	I	+	III			+-1	III
Festuca drymeia							1-4	I										
Festuca gigantea	+	IV	+	III	+	II	1-2	I	+	III			+	III			+	I
Ficaria verna	+-3	V	1-2	V	+-4	V	1-3	III	1-3	V			+-3	V	+-4	II	+-2	V
Fragaria vesca	+	I			+	II	+-2	II	+	II	+	III	+	I				
Fritillaria meleagris													+	I				
Gagea lutea	+	II					1	I	+-1	V			+-2	III			+	I
Gagea minima													+-1	II				
Gagea pratensis			+	IV	+	I												
Gagea spathacea							+	I	+-1	V			+-3	IV				
Galanthus nivalis							2	I			+-1	I	+-1	I				
Galega officinalis							1	I										
Galeobdolon luteum	+-2	I			1-2	I			2	I	1-2	I	1-4	II				
Galeopsis bifida	+	II			+	I							+	II				
Galeopsis pubescens			+	V	+	IV	1	I	+	II	+	I	+	I				
Galeopsis speciosa	+	I	+	II	+	I	1	II					+	I			+	III

Galium aparine	+-2	V	+	V	+-2	V	1-2	I	+	V	+-1	II	+	IV	+-2	IV	+	V
Galium mollugo					+	I	1	I							+	I		
Galium odoratum					+-4	III	+-5	IV	+-2	V	+-3	V	+-3	V	1	I	+-1	V
Galium palustre					+	I												
Galium rubioides					+	I												
Galium schultesii							+-2	I			+-1	I	+	I				
Galium verum							+-1	I										
Geranium phaeum							1	I										
Geranium robertianum	+	III	+	V	+-2	V	1-3	III	+	III	+	I	+	IV	1	I	+	II
Geum urbanum	+-1	V	+	V	+	V	+-2	IV	+	V	+	II	+	IV	+	II	+-1	IV
Gladiolus imbricatus							1	I										
Glechoma hederacea s.str.	+	I	+	V	+	II	1-2	II	+	II			+-2	III			+-2	V
Glechoma hirsuta					+	I	1-2	I										
Hedera helix							+-5	II			+	I						
Heracleum sphondylium					+	I	+-2	II	+	I	+	I	+	I				
Hieracium sabaudum agg.							1	I										
Hieracium umbellatum agg.							+	I			+	I						
Humulus lupulus					+	I	2	I										
Hypericum hirsutum	+	I			+	I	1	I										
Hypericum perforatum							1	II										
Impatiens noli-tangere					+-1	I	1	I	+	I			+-1	II				
Impatiens parviflora			+-2	V														
Inula britannica							2	I										
Isopyrum thalictroides					+-1	I	2	I	+	IV	+	I	+-3	I				
Knautia arvensis							1	I										
Lactuca quercina ssp. quercina	+	I																
Lactuca quercina ssp. sagittata					+	I												
Lamium album															+	I		
Lamium maculatum	+-2	II			+	I							+-1	II				
Lamium purpureum	+	I			+	I									+	I		
Lapsana communis	+	IV	+	III	+	IV	1	III					+	I			+	I
Lathraea squamaria					+	I			+	I	+	I	+	I				
Lathyrus niger							1	III			+	I						
Lathyrus pratensis							1-2	I										
Lathyrus vernus					+	I	+	I	+	V	+	I	+-1	III				
Leontodon hispidus							1	I										
Leonurus cardiaca			+	II	+	I												

Leucojum vernum											+-1	I	+-1	II				
Lilium martagon					+	II	1-2	I										
Listera ovata			+	I	+	II	1	I										
Lithospermum purpureo-coeruleum	1	I																
Luzula pilosa											+	I						
Lychnis flos-cuculi							+-1	I										
Lycopus exaltatus							+-1	I										
Lysimachia nummularia	+-1	II			+	II	+-2	III	+	II	+-1	II	+	I			+	II
Lysimachia vulgaris																	+	II
Majanthemum bifolium					+	I	+	I			+	II	+	I			+	III
Malva sylvestris							1	I										
Melampyrum bihariense							1-2	I										
Melampyrum nemorosum					+	I	+-1	I	+-1	III	+	I	+	I				
Melampyrum nemorosum ssp. debreceniense							1-2	I										
Melica altissima	+	I																
Melica picta					+	I												
Melica uniflora	+	I											1	I	1	I		
Melissa officinalis	+	I																
Melittis carpatica					+	I	1	I										
Mentha longifolia							1	I										
Mercurialis perennis					+-1	I			+-3	IV								
Milium effusum	+	II	+	II	+	IV	+-2	IV	+	I	+	I	+	IV			+	III
Moehringia trinervia	+	V	+	V	+-1	V	+-2	II	+	III	+	I	+	IV			+	V
Monotropa hypopitys							+	I			+	I						
Muscari botryoides							1	I										
Muscari comosum					+	I												
Mycelis muralis	+	I	1	I	+	IV	1	II			+	I						
Myosotis sparsiflora	+	I																
Myosoton aquaticum							1	I										
Neottia nidus-avis					+	I					+	I	+	I			+	I
Oenanthe banatica							1	I	+	III			+	III				
Orchis militaris					+	I												
Origanum vulgare							1	I										
Ornithogalum boucheanum			+	II	+	I									+-1	II		
Ornithogalum umbellatum			+-1	V	+	I												
Oxalis fontana													+	I				
Paris quadrifolia					+	I							+	I				

Peucedanum oreoselinum							1	I										
Phleum pratense							+-1	I										
Pimpinella saxifraga							1	I										
Plantago major							1	I										
Platanthera bifolia	+	II			+	I	+-1	II	+	I	+	I	+	II			+	II
Platanthera chlorantha					+	I												
Poa nemoralis			+	I	+	II	1-3	II					+	I	+	I		
Poa pratensis s.str.							1	I							+	I		
Polygonatum latifolium	+-1	V	+-1	V	+-3	II	1	II										
Polygonatum multiflorum			+	II	+-1	V	+-1	III	+-1	V	+-1	III	+-1	V	+-1	II	+-1	V
Polygonatum odoratum					+	I	1-2	II										
Potentilla alba							1	I										
Potentilla argentea s.str.							1-2	I										
Prunella vulgaris					+	I	1-2	I										
Pteridium aquilinum					+	I												
Pulicaria vulgaris							1	I										
Pulmonaria mollis					+	I	1	II							+-1	II		
Pulmonaria officinalis agg.	+-1	II			+-2	II	+-1	I	+	V	+-1	III	+-1	IV	+-1	I	+	IV
Ranunculus auricomus agg.	+	I			+	I	+-2	II	+	III	+	I	+	II			+	I
Ranunculus cassubicus					+	I	1	II									+	V
Ranunculus repens					+	I	1-2	II										
Ranunculus strigulosus							1	I										
Rumex crispus							1	I										
Rumex sanguineus	+	V			+	II	1	II	+	I			+	I			+	II
Salvia glutinosa			+-1	V	+-2	II												
Sambucus ebulus					+	I									+	I		
Sanicula europaea	+	I			+	II	+-1	II	1	I	+-2	II	+	I				
Scabiosa ochroleuca							1	I										
Scilla kladnii					+-1	I	1	I	+	IV			+-1	III				
Scilla vindobonensis	+	I																
Scrophularia nodosa	+	III			+	III	1	I	+	II			+	II			+	V
Scutellaria hastifolia							1	I										
Sedum maximum							1	I										
Senecio erraticus ssp. barbaraeifolius							+-1	I										
Serratula tinctoria							1	I										
Silene nutans							1	I										
Solanum dulcamara					+	I							+	I				

Solidago gigantea					+	I												
Sonchus arvensis							1	I										
Stachys sylvatica	+	III	+	IV	+-2	V	1-2	II	+	I	1	I	+	II			+	V
Stellaria holostea	+-3	II			+	I			+-1	III			+	I				
Stellaria media	+	I	+	I	+-1	II							+	I	+-4	IV		
Stenactis annua					+	I									+	I		
Symphytum tuberosum ssp. angustifolium					+	I	1	I										
Tamus communis					+	I												
Tanacetum vulgare							1	I										
Taraxacum officinale			+	I	+	I	+-1	I							+	I		
Thalictrum aquilegiifolium					+	I												
Torilis japonica s.str.	+	II	+	I	+	III					+	I	+	I			+	II
Trifolium pratense							1	I										
Trifolium repens							2	I										
Tussilago farfara							+-1	I										
Urtica dioica	+-2	IV	+-2	V	+-1	IV			+	II	+	I	+	III	+-2	IV	+	V
Veratrum album					+	I												
Veronica chamaedrys	+	II	+	II	+	II	1-2	III			+	I						
Veronica hederifolia	+-2	IV	+	V	+-1	II	1-2	I	+	V			+-1	IV				
Veronica montana													+	I				
Veronica officinalis					+	I												
Veronica triphyllos							1	I										
Vicia dumetorum	+	I			+	I											+	I
Vicia sepium							1	II										
Vinca minor	+-3	I			+-4	I	1-2	II			+	I	+-4	I				
Vincetoxicum hirundinaria	+	I			+	I	1	I	+	I			+	I				
Viola alba	+	I			+	I												
Viola cyanea	+-2	IV	+-1	I	+-3	I	1	II	+	II			+	I				
Viola elatior					+	I												
Viola hirta	+	I			+	I	1	I										
Viola mirabilis			+	I	+-2	III	1-2	III							2	I		
Viola montana					1	I												
Viola odorata							1	I					+	I	2-3	I		
Viola sylvestris	+-1	IV	+	IV	+-1	V	+-3	IV	+-1	V	+-4	V	+-2	V	+-3	IV	+-1	V
Viscaria vulgaris							1	I										

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Kv: area of the Körös rivers	20 (AD)		Kevey 2003; Kevey (unpublished)
Ny1:Western Nyírség	6 (AD)		Kevey, Papp (unpublished)
Ny2: Eastern Nyírség	56 (AD)		Kevey (unpublished); Kevey, Lendvai, Papp L. (unpublished); Kevey, Papp L. (unpublished)
Sz1: Szatmár plain	25 (AD)		Balázs 1943; Simon 1957
Sz2: Szatmár plain	7 (AD)		Kevey (unpublished)
Bg1: Bereg plain	11 (AD)		Simon 1957
Bg2: Bereg plain	32 (AD)		Kevey (unpublished); Papp M., Lesku (unpublished)
Bk1: Bodrogköz	11 (AD)		Tuba (unpublished).; Nagy J., Szerdahelyi, Czóbel, Szirmai, Gál, Cserhalmi (unpublished)
Bk2: Bodrogköz	11 (AD)		Kevey (unpublished)

XI.1 *Convallario-Quercetum roboris*

		Ny 1		Ny 2		Ny 3		Sz		Bg		Bk		Sv
	A-D	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**
Upper canopy layer (A1)														
Acer campestre	1-3	III	+	III	+-1	I	1-4	III	2	I				
Acer platanoides					2	I								
Betula pendula	1-4	I												
Carpinus betulus	1	I					1	I						
Cerasus avium	1	I	+	V	+-1	II	1	II						
Fraxinus angustifolia ssp. pannonica	1	I											1-4	III
Fraxinus pennsylvanica					1	I								
Loranthus europaeus	+	I	+	II	+	I								
Populus alba	1	I			1-2	I							1-3	I
Populus nigra	+	I									1	I		
Populus tremula	1	I												
Populus × canescens	+	I	+	I										
Pyrus pyraster	1	I			1	I	1	I			4	V		
Quercus cerris					1	I								
Quercus robur	1-5	V	4-5	V	3-5	V	1-5	V	4	V	1	III	2-5	V
Robinia pseudo-acacia	+	I	+	II	+	II	1	I						
Tilia cordata	+	I	+	I										
Tilia platyphyllos			+	I										
Tilia tomentosa	1-4	I	+	I	1	II								
Ulmus glabra	1	I					+	I						
Ulmus laevis	+	I	+	II	+	I					1	III		
Ulmus minor	1-2	III	+	III			1-2	III						
Viscum album	+	I												
Lower canopy layer (A2)														
Acer campestre					1-4	III			2-3	V			1	II
Acer platanoides					+-1	III								
Acer tataricum									1-2	IV			1	I
Celtis occidentalis					+-2	II								
Cerasus avium					+	II								
Crataegus monogyna					+	II								
Fraxinus angustifolia ssp. pannonica					+	I								

Fraxinus pennsylvanica					+-1	I			1	I	1	III		
Hedera helix					+	I								
Malus sylvestris	1	I			+	II			2	I				
Padus avium					1	I								
Padus serotina					+	I								
Pyrus pyraster					+-2	III			+-2	III	1	I		
Quercus robur					+-1	III					2	I		
Robinia pseudo-acacia					+	I								
Salix caprea	+	I												
Tilia cordata					+	I								
Tilia tomentosa					+-3	III								
Ulmus laevis					+-2	II								
Ulmus minor					+-2	V			1	I				
Shrub layer (B1)														
Acer campestre			+-2	III	+-3	V			+-2	IV				
Acer negundo					+	I								
Acer platanoides					+	III								
Acer pseudo-platanus			+	I	+	I								
Acer tataricum	1-2	II					1-2	V	+-2	V				
Berberis vulgaris	+	I												
Celtis occidentalis					+-2	III								
Cerasus avium			+-1	II	+	II								
Clematis vitalba	+	I												
Cornus mas	+	I	+	I										
Cornus sanguinea	+-1	III	+-2	III	+	II	1-2	III	+-2	IV	+	IV	1	I
Corylus avellana	1-3	III	+-2	II	+-4	III	1-3	V					2	I
Crataegus monogyna	1	IV	+-2	V	1-3	IV	1-3	IV	+-1	III			1-2	III
Crataegus oxyacantha							1	I	1	I	+	III		
Euonymus europaea	+-1	II			+	IV	1	III					1	I
Euonymus verrucosa	1	II					1	II						
Frangula alnus	1	II			+	I	1	III					1	I
Fraxinus angustifolia ssp. pannonica					+	I							1-2	III
Fraxinus pennsylvanica									+	I				
Hedera helix					+	I								
Humulus lupulus					+	I							1	I
Juglans regia					+	I								
Ligustrum vulgare	1-2	V			+-1	III	1-2	V					1-2	IV

Malus sylvestris			+	I	+	I					+	I	1	I
Padus avium	+	I			+-1	II								
Padus serotina			+	I	+-2	II								
Populus alba					+	I								
Populus tremula					+	I	1	I						
Prunus spinosa	+-1	II			+	II	1	I					1	I
Pyrus pyraster			+	I	+	I							1	I
Quercus robur											+	V	1-2	I
Rhamnus catharticus	1	I			+	I	1	I					1	I
Robinia pseudo-acacia			+-2	II	+	I								
Rosa canina agg.							1	I						
Rosa corymbifera s.str.	+	I												
Rosa gallica											+	I		
Rosa livescens													+	I
Sambucus nigra	1	II	+-3	IV	+-2	V	1	I	+-1	II			1	I
Staphylea pinnata	+	I					1-2	I						
Tilia tomentosa					+-1	III								
Ulmus laevis			+	III	+	II					+	IV		
Ulmus minor			+	III	+-1	V							1-2	II
Viburnum lantana											+	I		
Viburnum opulus	1	I			+	I	1	I					1	I
Vitis sylvestris													1	I
Saplings (B2)														
Acer campestre			+	II	+-1	V			+-1	V			+	II
Acer platanoides					+	III								
Acer pseudo-platanus			+	I	+	II								
Acer tataricum									+	II	+	I	+	I
Ailanthus altissima					+	I								
Carpinus betulus									+	III				
Celtis occidentalis					+	II								
Cerasus avium			+	II	+	III			+	I				
Cornus sanguinea			+	I	+	II			+-2	V	1	III		
Corylus avellana			+	I	+	III			+	I				
Crataegus monogyna			+	II	+	III			+	IV				
Euonymus europaea			+	IV	+-1	V								
Fraxinus pennsylvanica			+	I	+	I			+-1	II	2	III		
Gleditsia triacanthos					+	I								

Hedera helix	1	I			+-3	I								
Juglans nigra					+	II								
Juglans regia					+	I								
Ligustrum vulgare			+	I	+-2	IV			+	IV				
Padus avium					+	I								
Padus serotina			+	I	+	III								
Populus alba					+	I								
Prunus spinosa					+	I								
Pyrus pyraster					+	I			+	I				
Quercus robur			+	II	+	IV			+	III				
Quercus rubra					+	I								
Rhamnus catharticus					+	I			+	I				
Ribes rubrum					+	I								
Robinia pseudo-acacia			+	II	+	II								
Rosa canina agg.									+	I				
Rosa gallica							1	I						
Rubus caesius	1	II	+-2	I	+	II	1	III	1-2	IV	3	V	1	II
Sambucus nigra			+	IV	+	V								
Tilia tomentosa					+	III								
Ulmus laevis					+	I					+	III		
Ulmus minor			+	III	+-1	V			+	I				
Viburnum opulus			+	I	+	I								
Vitis vulpina											+	II		
Herbaceous layer (C)														
Achillea millefolium s.str.	+	I					1-2	III					1	I
Actaea spicata	+	I	+	I										
Aethusa cynapium	+	I	+	I	+	I							1	I
Agrimonia eupatoria	+	I					1	I					1	I
Agropyron caninum	1-2	III	+	III	+-1	V	1	II					1-2	III
Agropyron repens							2	I						
Agrostis capillaris							1-3	III						
Agrostis stolonifera													1	I
Ajuga genevensis	+	I											1	I
Ajuga reptans	+	I					1-2	III			+	II	1	II
Alliaria petiolata	1	III	+	IV	+	V	1	III	+	II			1	I
Allium oleraceum	1	I												
Allium scorodoprasum	+	I					1	I					1	II

Alopecurus pratensis							1	I					1	I
Alyssum montanum ssp. montanum	1	I												
Anemone ranunculoides	2	I			+-1	II	1-2	III					1	I
Angelica sylvestris	+	I							+	I	+	I	1	I
Anthoxanthum odoratum	1	I					1	I						
Anthriscus cerefolium ssp. trichosperma	+	I	+	I	+	I							1	I
Anthriscus sylvestris	+	I	+	I	+	III			+	II				
Arabis turrita													1	III
Arctium lappa	1	II	+	II									1	I
Arctium minus					+	IV								
Arctium nemorosum													1	I
Arctium tomentosum	+	I					1	I						
Aristolochia clematitis	+	I			+	I			+	I	1	II	1	I
Arrhenatherum elatius	+	I												
Artemisia campestris	+	I												
Artemisia pontica	+	I												
Artemisia vulgaris													1	I
Arum maculatum s.str.			+	I	+-1	III								
Arum orientale ssp. besseranum	1	II			+-1	II								
Asparagus officinalis	1	I											1	I
Asperugo procumbens	+	I												
Asplenium trichomanes	1	I												
Astragalus cicer	+	I												
Astragalus glycyphyllos	1	III	+	I	+	II	1-2	III					1-2	III
Athyrium filix-femina	1	I	+	II	+	I								
Ballota nigra	+	I			+	I								
Berteroa incana							1	I						
Betonica officinalis	1	I					1-2	II						
Brachypodium sylvaticum	1-2	IV	+-2	III	+-1	V	1	III	+-2	V			1-5	III
Bromus inermis	+	I											1	I
Bromus mollis							2	I						
Bromus ramosus agg.	1	I	+	I	+-1	III	1	I					1	I
Bromus sterilis	+	I	+	I			2	I					1	I
Bulbocodium versicolor	1-2	I												
Bupleurum affine													1	I
Campanula bononiensis	+	I											1	I
Campanula cervicaria	+	I					1	I						

Campanula glomerata	+	I												
Campanula patula	+	I	+	I			1	III	+	I				
Campanula persicifolia	+	I												
Campanula rapunculoides	+	I												
Campanula rapunculus	1	I												
Campanula rotundifolia s.str.	1	I												
Campanula trachelium													1	I
Cannabis sativa	+	I			+	I								
Cardamine impatiens	1	I											1	II
Carduus acanthoides							1	I						
Carduus crispus	1	I					1	I					1	II
Carex brizoides					+	I								
Carex caryophyllea	+	I												
Carex divulsa	+-1	II			+	IV	1	III					1	I
Carex gracilis											2	III		
Carex leporina							1	I						
Carex michelii	1	I												
Carex pairae	1	II					1	I					1	II
Carex pallescens	1	I					1	III						
Carex praecox	+	I					1	I						
Carex remota							1	II						
Carex spicata	1	II	+	I									1	I
Carex sylvatica			+	I	+	II	1	I					1-5	II
Carlina vulgaris	+	I					+	I						
Centaurea indurata	1	I					1	II						
Centaurea pannonica	+	I					1	III					1	I
Centaurea scabiosa s.str.	1	I												
Centaurea spinulosa	1	I												
Centaurea triumfetti	+	I												
Centaurium erythraea	1	I							+	I			1	I
Centaurium pulchellum	+	I					1	I						
Cephalanthera rubra	+	I												
Cephalaria pilosa	1	I			+	I							1	II
Cerastium fontanum	+	I												
Cerasus vulgaris ssp. acida							1	I						
Cerinthe minor	+	I												
Chaerophyllum bulbosum	+	I												

Chaerophyllum temulum	1	II	+-2	V	+	V	1	III					1-2	IV
Chamaecytisus albus							1	I						
Chamaecytisus ratisbonensis	1	I												
Chamaecytisus supinus ssp. pseudorochellii	+	I												
Chelidonium majus	1	II	+	III	+	IV								
Chrysanthemum leucanthemum agg.	1	I					1	I			+	I	1	I
Circaea lutetiana	1	II	+-1	V	+-1	IV	1-2	II	+-1	V			1-2	II
Cirsium arvense							1	II						
Cirsium pannonicum							2	I						
Cirsium vulgare	+	I					1	I						
Clematis recta	+	I												
Clinopodium vulgare	1	II	+	I	+	I	1	I	+	I			1	II
Cnidium dubium													1-2	I
Colchicum autumnale	1	I					1-2	II						
Conium maculatum	1	II												
Convallaria majalis	1-3	IV	+	I	+-1	II	1-4	III	+	II	4	V	1	I
Coronilla varia	+	I											1	I
Corydalis cava	3	I			+-4	II	2	I					1-5	III
Crepis setosa	+	I												
Crepis tectorum							1	I						
Crocus reticulatus	1	I												
Cruciata glabra	+	I	+	I			1-2	V						
Cruciata laevipes	1	II	+	I										
Cucubalus baccifer	1	I			+	V			+	I			1	II
Cuscuta europaea	+	I												
Cynoglossum hungaricum	1	I												
Cynosurus cristatus							1	I						
Cystopteris fragilis	1	I												
Dactylis glomerata s.str.	1	III					1-2	III					1	I
Dactylis polygama			+	III	+-1	IV	1	II	1	I				
Dentaria bulbifera							1	I						
Deschampsia caespitosa							1	II						
Dianthus armeria	1	I					1	I					1	I
Dianthus collinus ssp. glabriusculus	1	I					1	I					1	I
Dianthus pontederae	+	I												
Dictamnus albus	+	I												
Digitalis grandiflora	1	I					1	I						

Draba nemorosa	+	I												
Dryopteris carthusiana s.str.	1	I	+	I										
Dryopteris filix-mas s.str.	1	II	+	II			1	I						
Echinops sphaerocephalus	1	I												
Epilobium angustifolium	1	I												
Epilobium lanceolatum	+	I												
Epilobium montanum	+	I					1	I						
Epilobium obscurum							1	I						
Epilobium tetragonum							1	I						
Epipactis helleborine agg.	1	I									+	I	1	I
Equisetum arvense	+	I	+	I	+	I							1	I
Equisetum x moorei	1	I												
Erechtites hieraciifolia							1	I						
Erigeron canadensis	+	I					1	I						
Erodium cicutarium													1	I
Erophila verna s.str.	1-2	I											1-2	I
Eryngium planum							1-2	I						
Euphorbia angulata	+	I												
Euphorbia cyparissias	+	I	+	I									1	I
Euphorbia lucida							1	I			+	I		
Euphorbia platyphyllos													1	I
Euphorbia salicifolia	+	I												
Euphorbia villosa	+	I					1	I						
Fallopia dumetorum	1	II	+	III	+	V			+	I			1	I
Festuca gigantea	1	II	+	II	+	III	1	II	+-1	II			1-2	I
Festuca heterophylla							1	I						
Festuca pratensis							1	I						
Festuca rupicola	+	I					1-2	II						
Festuca valesiaca							1	I						
Ficaria verna	1-2	II			+-4	V	1-3	IV					1-3	III
Filipendula vulgaris	+	I												
Fragaria moschata	+	I												
Fragaria vesca	1	III	+	I	+	I	1-2	V					1	II
Gagea lutea							1	I					1	II
Gagea minima													1	I
Gagea pratensis	1	I			+	IV							1-2	III
Gagea pusilla	1	I												

Galega officinalis									+	I				
Galeopsis pubescens	1	II	+	II	+	V	1	I	+	I			1	II
Galeopsis speciosa			+-2	II	+	I	1-2	IV	+	I				
Galinsoga parviflora	+	I												
Galium aparine	1	III	+-2	V	+	V	1	III					1-3	III
Galium boreale	+	I												
Galium mollugo	1	II					1-2	IV						
Galium odoratum	1	I			+-1	I			1-2	V				
Galium palustre													1	I
Galium rubioides	+	I												
Galium verum							1-2	III						
Genista tinctoria ssp. elatior	1	I												
Genista tinctoria ssp. tinctoria							1-2	III						
Geranium divaricatum	+	I												
Geranium phaeum	1	I	+	I										
Geranium robertianum	1	III	+-1	V	+-1	V	1	II	+	I			1-2	IV
Geranium sanguineum	+	I					1-2	III						
Geum urbanum	1	V	+	IV	+-1	V	1-2	IV	+	IV			1	V
Gladiolus imbricatus							1	I						
Glechoma hederacea s.str.	1	IV	+	II	+	II	1-2	III	+-3	III	3	III	1-3	III
Glechoma hirsuta					+-2	III								
Gymnocarpium dryopteris	1	I												
Gypsophila muralis							1	I						
Heracleum sphondylium	1	I	+	I			1	I					1-2	I
Hieracium bauhinii agg.	+	I												
Hieracium caespitosum agg.	+	I												
Hieracium cymosum agg.	+	I												
Hieracium lachenalii agg.							1-2	I						
Hieracium pilosella agg.	+	I											1	I
Hieracium sabaudum agg.	+	I					1	II						
Hieracium umbellatum agg.	1	I												
Holcus lanatus	+	I					1	I						
Holosteum umbellatum	+	I											1	II
Humulus lupulus	+-1	III			+	III								
Hypericum hirsutum							1	III						
Hypericum perforatum	1	I					1-2	II	1	I			1	I
Hypericum tetrapterum							1	I						

Hypochoeris maculata	+	I												
Impatiens noli-tangere							1	I						
Impatiens parviflora			+-3	II	1-3	V								
Inula britannica							1	II					1	I
Inula hirta	+	I												
Inula salicina	1	I												
Iris aphylla ssp. hungarica	1	I												
Iris arenaria	+	I												
Isatis tinctoria	+	I												
Isopyrum thalictroides							2	I						
Juncus effusus							1	I	+	I				
Knautia arvensis	1	I					1	II						
Knautia drymeia							1	I						
Lactuca quercina ssp. quercina	+	I			+	I	+-1	II					1	II
Lactuca quercina ssp. sagittata	1	I											1	II
Lactuca serriola									+	I				
Lamium album	+	I											1	I
Lamium maculatum	+	I												
Lamium purpureum	+	I											1	I
Lapsana communis	1	II	+	I	+	III	1-2	III	+	III			1	III
Laserpitium prutenicum	+	I												
Lathraea squamaria							1	I						
Lathyrus niger	1	I					1	II						
Lathyrus pallescens	+	I												
Lathyrus pratensis	+	I					1	II					1	I
Lathyrus sylvestris	1	I												
Lavatera thuringiaca	+	I					1	I					1	I
Lembotropis nigricans	+	I					1	I						
Leontodon autumnalis							1	I						
Leontodon hispidus	+	I					1	II					1	I
Leonurus cardiaca	+-1	II	+	I	+	II								
Leonurus marrubiastrum											+	I	1	I
Lilium martagon					+	I								
Linaria vulgaris							1-2	II						
Listera ovata	+	I					1	I	+	II				
Lithospermum officinale	+	I												
Lithospermum purpureo-coeruleum	2-4	I					3	I						

Lotus corniculatus	+	I					1-2	I						
Luzula campestris	1	I					1	I					1	I
Luzula pallescens	1	I												
Lychnis coronaria	1	I												
Lychnis flos-cuculi							1	II					1	I
Lycopus europaeus									+	I	+	II		
Lycopus exaltatus							1	II						
Lysimachia nummularia	+	I	+	I			1-2	IV	+	II	1	II	1	II
Lysimachia vulgaris											+	II		
Majanthemum bifolium	+	I												
Malva sylvestris							1-2	II						
Melampyrum bihariense	+	I					1-2	II						
Melampyrum cristatum	+	I												
Melampyrum nemorosum	1	II			+	I			+	I				
Melandrium album	1	I	+	I	+	I	1	I						
Melica picta	+	I												
Mentha arvensis													1	I
Milium effusum	1-2	II	+	IV	+	II	1	III					1-2	II
Moehringia trinervia	1	III	+	I	+	V							1	II
Molinia coerulea	+	I												
Monotropa hypopitys	+	I												
Muscari botryoides	1	I					1	I						
Mycelis muralis	1	I			+	I	1	II					1	I
Myosotis arvensis	+	I											1	I
Myosotis caespitosa							1	I						
Myosotis sparsiflora	1	I	+	I	+	I	1	III						
Myosoton aquaticum	+	I	+	II										
Neottia nidus-avis	+	I					1	I					1	I
Nepeta cataria	+	I												
Nepeta pannonica	+	I												
Odontites vulgaris							1-2	II						
Oenanthe banatica							1-2	III						
Oenothera biennis	+	I											1	I
Ononis arvensis							+	I						
Ophioglossum vulgatum	+	I												
Origanum vulgare	1	II												
Ornithogalum boucheanum	+	I			+-1	V								

Ornithogalum umbellatum	1	I			+-1	III								
Orobanche ramosa	+	I												
Pastinaca sativa	+	I											1	I
Peucedanum alsaticum	+	I												
Peucedanum cervaria	+	I												
Peucedanum officinale							1	I						
Peucedanum oreoselinum	1	I					1	I						
Phleum pratense							1	I						
Phlomis tuberosa													1	I
Physalis alkekengi													1-2	I
Phytolacca americana					+	I								
Picris hieracioides							1	I						
Pimpinella saxifraga													1	I
Plantago major							1	II						
Platanthera bifolia	1	I					1	I						
Platanthera chlorantha	+	I					1	I					+	I
Poa nemoralis	1-4	III	+	I	+	III	1-5	V					1-5	IV
Poa palustris													1-2	II
Poa pratensis s.str.	1	I					1-2	III					1-2	II
Poa trivialis	+	I					1	II						
Polygala comosa	1	I												
Polygonatum latifolium	1-2	III	+	II	+-2	IV	1-2	II					1	I
Polygonatum multiflorum	1	III			+	III	1	III	+	IV				
Polygonatum odoratum	1	I			+	I	1	I					1	I
Polygonum hydropiper	+	I											1	I
Polygonum minus	+	I												
Polypodium vulgare	+	I												
Polystichum aculeatum	+	I												
Potentilla alba	1	I												
Potentilla argentea s.str.	+	I					1	I					1	I
Potentilla erecta							1	I						
Potentilla recta	+	I												
Potentilla reptans									+	I			1	I
Primula veris	1-2	I					1	I						
Prunella laciniata							1	I						
Prunella vulgaris	1	I					1-2	III	+-1	III			1	II
Pteridium aquilinum	1	I	+-2	I										

Pulmonaria mollis	1-2	IV			+	I	1	II					1	I
Pulmonaria officinalis s.str.							1	II					1-2	II
Pulsatilla pratensis ssp. hungarica	+-1	I												
Pyrola rotundifolia	+	I												
Ranunculus acris							1	I						
Ranunculus arvensis							1	I						
Ranunculus auricomus agg.	+	I					1	I					1	I
Ranunculus polyanthemos	1	I					1	I					1	I
Ranunculus repens							1-2	I						
Ranunculus strigulosus							1	II						
Rumex acetosa	+	I					2	I					1	I
Rumex crispus	+	I					1	I						
Rumex obtusifolius	+	I												
Rumex sanguineus	+	I			+	I	1-2	III					1	III
Sagina procumbens	+	I												
Salvia glutinosa	1-3	II	+-3	V	+-3	V								
Salvia pratensis	1	I												
Sambucus ebulus	+	I									+	II	1	I
Saponaria officinalis							1	I						
Saxifraga bulbifera	+	I												
Scabiosa ochroleuca							1	II						
Scilla kladnii	2	I												
Scilla vindobonensis					+-1	IV								
Scrophularia nodosa	1	I			+	I	1	II	+-1	II			1	I
Scutellaria galericulata							1	II			+	I		
Scutellaria hastifolia	1	I					1	I						
Sedum maximum	1	I			+	I	1	I						
Selinum carvifolia							1	II						
Senecio erraticus ssp. barbaraeifolius							1	III					1	I
Senecio erucifolius ssp. tenuifolius	1	I												
Senecio integrifolius	1	I												
Senecio jakobea	+	I												
Senecio nemorensis ssp. nemorensis	2	I											1-2	I
Serratula tinctoria	+	I					1	III						
Seseli annuum	+	I												
Silene nutans	1	I					1	I						
Silene vulgaris	1	I											1	II

Solanum dulcamara											+	II		
Solidago virga-aurea	+	I	+	I			1	I						
Stachys germanica	+	I												
Stachys sylvatica	1-2	III	+-2	V	+-1	V	1-2	III					1	II
Stellaria graminea	1	I					1	III						
Stellaria holostea	2	I												
Stellaria media	1	II	+	III	+-1	III	1	I					1	I
Stenactis annua	+	I					1	I	+	I				
Succisa pratensis							1	I						
Symphytum officinale	+	I									+	II	1	I
Symphytum tuberosum ssp. angustifolium							1	I						
Tanacetum vulgare							1	II						
Taraxacum officinale	+	I					1-2	II					1	I
Teucrium chamaedrys	+	I												
Thalictrum aquilegiifolium	1	II											1	I
Thalictrum lucidum	+	I												
Thalictrum minus	+	I	+	I										
Thalictrum simplex	+	I												
Thymus serpyllum	+	I												
Torilis arvensis													1	IV
Torilis japonica s.str.	1	II			+	I								
Tragopogon orientalis							1	I						
Trifolium alpestre	+	I					1	I						
Trifolium campestre	+	I											1	I
Trifolium diffusum	+	I												
Trifolium medium	1	I												
Trifolium montanum	+	I												
Trifolium ochroleucon							1	I						
Trifolium pratense	+	I												
Trifolium repens							1-2	II						
Turritis glabra	+	I											1	II
Urtica dioica	1	III	+-5	V	+-2	V	1-3	II			+	I	1	II
Valeriana officinalis s.str.	1	I					1	I					1	I
Valerianella locusta	+	I											1	I
Verbascum blattaria	+	I											1	I
Verbascum densiflorum	1	I												
Verbascum lychnitis	1	II												

Verbascum nigrum	+	I												
Verbascum phlomoides	+	I												
Verbascum phoeniceum	+	I												
Veronica austriaca s.str.	+	I												
Veronica chamaedrys	1	II	+	I	+	I	1-2	V					1	III
Veronica hederifolia	1	I			+-2	V	1-2	III					1	II
Veronica longifolia	1	I											1	I
Veronica officinalis	1	I												
Veronica orchidea	+	I											1	I
Veronica paniculata ssp. foliosa	+	I												
Veronica serpyllifolia	+	I					1	I						
Veronica spicata s.str.	+	I												
Veronica teucrium	+	I												
Vicia cassubica	+	I												
Vicia cracca	+	I											1	II
Vicia hirsuta	+	I												
Vicia lathyroides	+	I											1	I
Vicia pisiformis	1	I											1	II
Vicia sepium	1	II	+	I	+	I	1	III					1	II
Vicia tetrasperma	+	I					1	I					1	I
Vinca minor	1	I			4	I	1-4	III						
Vincetoxicum hirundinaria	1	I					1	I	+	I			1	I
Viola canina	+	I												
Viola cyanea	1	II	+	II	+-2	V	1	II	+	I			1-2	III
Viola elatior	+	I												
Viola hirta	1	I											1	II
Viola mirabilis	1	II			+	I	1	I						
Viola montana	1	I												
Viola odorata			+	II	+	I								
Viola riviniana	1-2	I					1	I						
Viola suavis	1	I												
Viola sylvestris	1	I			+	I	1	III					1-2	V
Viola tricolor	1	I											1	I
Viscaria vulgaris	1	I					1	I						

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Ny 1: Nyírség	24 (AD)		Soó 1943
Ny 2: Nyírség	15 (AD)		Horánszky 1998
Ny 3: Nyírség	12 (AD)		Kevey (unpublished).; Kevey & Papp L. (unpublished)
Sz: Szatmár plain	12 (AD)		Balázs 1943
Bg: Bereg plain	5 (AD)		Margóczi & Makra (unpublished)
Bk: Bodrogköz	5 (AD)		Tuba (unpublished)
Sv: area of the Sajó river	22 (AD)		Ujvárosi 1941

XI.2 *Galatello-Quercetum roboris*

	Tiszántúl1		Tiszántúl2		Újszentmargita		Bélmegyer		Körös-valley		altogether	
	A-D	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**	**A-D**	**K**
Upper canopy layer (A1)												
Acer campestre			1	I			+-2	I	1	I	+-2	I
Acer tataricum			2	I							2	I
Fraxinus angustifolia ssp. pannonica			2	I					1-2	II	1-2	I
Juglans nigra									1	I	1	I
Loranthus europaeus							+-2	I	+-1	I	+-2	I
Pyrus pyraster			1-2	II			1-5	II	1-2	II	1-5	II
Quercus cerris	+-3	III	2	I	1-3	II	3-4	I	1	I	+-4	II
Quercus petraea agg.	+-2	I			+-2	I					+-2	I
Quercus pubescens	+-2	I	1	I							+-2	I
Quercus robur	2-4	V	2-4	III	2-4	V	1-5	III	1-3	V	1-5	V
Ulmus minor			+	I	+-2	I	+-3	I			+-3	I
Lower canopy layer (A2)												
Acer campestre	+-2	II			2	I			+-2	III	+-2	I
Acer pseudo-platanus									+	I	+	I
Acer tataricum	1-4	IV	+	I	1-4	III					+-4	I
Crataegus monogyna					1	I	+-2	I	1	I	+-2	I
Elaeagnus angustifolia									+	I	+	I
Fraxinus angustifolia ssp. pannonica					1	I			+-2	III	+-2	I
Malus sylvestris					+	I			+	I	+	I
Prunus spinosa					+	I	1-2	I	-	-	+-2	I
Pyrus pyraster	1-2	IV	1-2	I	+-2	III			+-3	IV	+-3	III
Quercus cerris	+-3	III	2	I					2	I	+-3	I
Quercus petraea agg.	+-2	I									+-2	I
Quercus pubescens	2	I	1	I							1-2	I
Quercus robur			3-5	II					1-3	IV	1-5	II
Rhamnus catharticus					+	I					+	I
Robinia pseudo-acacia					1	I					1	I
Ulmus minor	+-3	II	1	I	2-4	I			+-3	III	+-4	II
shrub layer (B1)												
Acer campestre	+-2	III	+-1	II	+-1	I	+	I	+-1	IV	+-2	II
Acer platanoides									+	I	+	I

Acer pseudo-platanus							+	I	+	I	+	I
Acer tataricum	+-2	V	+-3	IV	+-2	III			+-1	I	+-3	II
Amygdalus nana	+	I									+	I
Bryonia alba									+	I	+	I
Cerasus fruticosa	+	I			+	I					+	I
Cornus sanguinea	+-2	I	1	I			+	I	+-2	II	+-2	I
Crataegus monogyna	+-2	V	+-3	V	+-2	IV	+-3	IV	+-3	V	+-3	V
Elaeagnus angustifolia									+	I	+	I
Euonymus europaea	+	III	+	III	+-1	I	+-2	II	+	I	+-2	II
Frangula alnus							+-1	I	-	-	+-1	I
Fraxinus angustifolia ssp. pannonica			+	I	+	I			+-3	II	+-3	I
Humulus lupulus									+	I	+	I
Ligustrum vulgare	+-4	V	1-2	IV	+-4	IV	+-2	II	+-1	II	+-4	III
Malus sylvestris			+	I							+	I
Padus serotina			+	I							+	I
Prunus spinosa	+-3	IV	+-3	V	+-3	III	1-5	IV	+-5	V	+-5	V
Pyrus pyraster	2	IV	+-1	III	+-1	II	+-1	I	+-2	V	+-2	IV
Quercus cerris	+-1	I	+	I	+	I	+-1	I	+	II	+-1	I
Quercus pubescens	+-2	I									+-2	I
Quercus robur	+	I	1	I	+-1	I	+	II	+	III	+-1	II
Rhamnus catharticus	+	II	+	I	+	I			+	II	+	II
Rosa canina agg.	+-1	II	+	III	+-1	III	+-2	II	+	V	+-2	IV
Rubus caesius					-	-	-	-	+	I	+	I
Sambucus nigra					+	I	+-2	I	+-1	II	+-2	I
Solanum dulcamara									+	I	+	I
Ulmus glabra							+	I			+	I
Ulmus minor	+-3	II	+-2	II	+-2	II	+-2	II	+-2	IV	+-3	III
Saplings (B2)												
Acer campestre			+	II	+-1	I	+-1	II	+-1	IV	+-1	II
Acer platanoides									+	I	+	I
Acer pseudo-platanus									+	I	+	I
Acer tataricum			+-2	IV	+-2	V			+	II	+-2	II
Clematis vitalba									+	I	+	I
Cornus sanguinea			+	I					+	II	+	I
Crataegus monogyna			+-1	IV	+	II	+-2	II	+	V	+-2	III
Euonymus europaea			+-2	IV	+	III	+-2	I	+	IV	+-2	II
Frangula alnus							+	I			+	I

Fraxinus angustifolia ssp. pannonica			+	I					+-2	III	+-2	II
Fraxinus pennsylvanica									+	I	+	I
Hedera helix			1	I							1	I
Ligustrum vulgare			+-2	IV	+	I	+-1	I	+	II	+-2	II
Prunus spinosa			+-2	IV	+-1	I	+-2	II	+-2	V	+-2	III
Pyrus pyraster			+	II	+	II	+-1	I	+	V	+-1	III
Quercus cerris			+	I	+	I			+	II	+	I
Quercus robur			+	II	+	III	+	I	+	V	+	III
Rhamnus catharticus			+	I	+	I	+	I	+	IV	+	II
Robinia pseudo-acacia					+	I	+	I			+	I
Rosa canina agg.					+	II	+	I	+	III	+	II
Rosa gallica	+	II	1	I	+	I					+-1	I
Rubus caesius									+-1	IV	+-1	II
Rubus fruticosus agg.					+	I			-	-	+	I
Sambucus nigra			+	II	+	I	+	II	+	I	+	I
Ulmus glabra							+	I	-	-	+	I
Ulmus laevis									+	I	+	I
Ulmus minor			2	I	+-2	I	+-1	I	+-1	V	+-2	II
Vitis sylvestris					+	I					+	I
Herbaceous layer (C)												
Achillea collina			+	I							+	I
Achillea millefolium s.str.					+	I	+-1	I	+	I	+-1	I
Achillea pannonica					+	I	-	-	+-1	V	+-1	II
Achillea setacea			+	I			+-2	II			+-2	I
Agrimonia eupatoria									+-1	IV	+-1	II
Agropyron caninum	+-2	II	+	II	1-2	I			+	II	+-2	I
Agropyron repens	+	II	+-2	V	1-4	II	1-3	II	+-1	V	+-4	IV
Agrostis stolonifera			+	I	+	I			+	I	+	I
Ajuga genevensis			+	II	+	I			+	II	+	I
Ajuga reptans									+	I	+	I
Alliaria petiolata	+-3	III	+	III	+-3	III			+-1	V	+-1	II
Allium oleraceum									+	I	+	I
Allium scorodoprasum									+-1	III	+-1	I
Allium vineale							+-1	I	+	III	+-1	I
Alopecurus pratensis	+-4	III	+-2	IV	1-5	III	+-2	II	+-1	V	+-5	V
Amaranthus deflexus					+	I					+	I
Ambrosia artemisiifolia									+	I	+	I

Anthoxanthum odoratum			+	I							+	I
Anthriscus cerefolium ssp. trichosperma			+	II					+-1	II	+-1	I
Anthriscus sylvestris			+	I							+	I
Arabidopsis thaliana									+	I	+	I
Arctium lappa			+	I	+	II			+	I	+	I
Arctium minus									+	II	+	I
Aristolochia clematitis									+	I	+	I
Arrhenatherum elatius									+	I	+	I
Artemisia pontica	1	II	+	II	+-1	I	+-1	I	+	III	+-1	III
Artemisia santonicum					+	I			+	III	+	I
Artemisia vulgaris									+	I	+	I
Arum orientale ssp. besseranum			+	I	+-1	I	+	I	+	I	+	I
Asparagus officinalis	+	III	+	II	+	I			+	II	+	II
Asperugo procumbens									+	I	+	I
Aster linosyris	+	II									+	I
Aster sedifolius	+-1	III	+	III	+-1	III	+-2	II	+-2	V	+-2	V
Astragalus glycyphyllos	+	III	+	III	+	III	+-1	I	+	IV	+-1	III
Atriplex oblongifolia							+-2	I	-	-	+-2	I
Ballota nigra			+	II	+-1	I	+-3	I	+-1	IV	+-3	II
Betonica officinalis	+-1	II	+	II	+	I	+	I			+-1	II
Brachypodium pinnatum	+	I									+	I
Brachypodium sylvaticum	+-2	III	+	III	+-1	II	+-2	II	+	III	+-2	II
Bromus commutatus									+	II	+	I
Bromus inermis			+-1	II					+	II	+-1	I
Bromus ramosus agg.			-	-					+	I	+	I
Bromus sterilis			+	I					+-1	III	+-1	I
Bryonia alba			-	-					+	I	+	I
Calamagrostis epigeios			+-2	II	+	I			+	II	+-2	I
Calystegia sepium							+-2	IV	-	-	+-2	I
Campanula glomerata									+	I	+	I
Campanula macrostachya			+	I					-	-	+	I
Campanula rapunculus					+	I			+	I	+	I
Capsella bursa-pastoris									+	I	+	I
Cardaria draba									+	II	+	I
Carduus acanthoides									+	II	+	I
Carduus crispus			+	I					+	III	+	II

Carex acutiformis			+	I							+	I
Carex distans									+	I	+	I
Carex divulsa			+-1	II	+-3	IV			+	I	+-1	I
Carex elata			-	-			+	I			+	I
Carex melanostachya			+-1	III					+-2	IV	+-2	II
Carex pairae	+-2	III	-	-							+-2	I
Carex pallescens			-	-					+	I	+	I
Carex praecox			+	II	+	I			+-1	II	+-1	I
Carex spicata									+	IV	+	II
Carex tomentosa	+	I							+	I	+	I
Carex vulpina			+	I			2-3	II			+-3	I
Centaurea jacea s.str.			+	I	+	I			+	IV	+	II
Centaurea pannonica	+-1	III					+-1	I			+-1	I
Centaurea scabiosa agg.					+-1	I					+-1	I
Centaurea triumfetti					+	I					+	I
Centaurium pulchellum									+	I	+	I
Cerastium brachypetalum									+	I	+	I
Chaerophyllum bulbosum					+	I			+	I	+	I
Chaerophyllum temulum			+	I					+	I	+	I
Chenopodium album			+	I	+	I	+-1	II	+	IV	+-1	II
Chenopodium hybridum			+	I			+-2	I	+	I	+-2	I
Cichorium intybus							+-1	II	+	I	+-1	I
Circaea lutetiana									+	I	+	I
Cirsium arvense							+	I	+	III	+	II
Cirsium vulgare									+	III	+	I
Clinopodium vulgare	+	III	+	I	+-1	II	+-1	I	+	III	+-1	II
Conium maculatum					+	I			+	I	+	I
Consolida regalis									+	I	+	I
Convolvulus arvensis							1	I	+	III	+-1	I
Corydalis cava	+-4	II	+-1	I					+	I	+-4	I
Cruciata glabra			-	-			+	I			+	I
Cruciata laevipes			1	I					+	III	+-1	I
Cruciata pedemontana			+	I					+	I	+	I
Cucubalus baccifer			+	II			+-1	II	+	IV	+-1	II
Cuscuta epithymum ssp. kotschyi							+	I	+	I	+	I
Cuscuta europaea							+	I			+	I
Cuscuta trifolii									+	I	+	I

Cynoglossum officinale									+	I	+	I
Dactylis glomerata s.str.	+-2	IV	+-1	IV	+-3	IV			+	II	+-3	III
Dactylis polygama									+	II	+	I
Daucus carota ssp. carota							+-1	I	+	I	+-1	I
Dianthus armeria					+	I	+	I	+	I	+	I
Dianthus pontederae			+	I	+	I					+	I
Dipsacus laciniatus									+	II	+	I
Doronicum hungaricum	+-2	III	+-1	II	+-2	III					+-2	II
Echinops sphaerocephalus									+	I	+	I
Epilobium tetragonum									+	I	+	I
Erigeron canadensis			+	I					+	I	+	I
Eryngium campestre			+	I	+	I	+-1	I	+	III	+-1	II
Euphorbia cyparissias	+	II	+	II	+-1	II	+	II	+	II	+-1	II
Euphorbia palustris									+	I	+	I
Euphorbia virgata			+	I			1	I	+	II	+-1	I
Falcaria vulgaris							+	I	+	I	+	I
Fallopia dumetorum	+-1	IV	+	III	+-1	III			+	IV	+-1	III
Festuca pratensis							2-4	II			2-4	I
Festuca pseudovina			+	III	+-1	I	1	I	+	I	+-1	I
Festuca rubra s.str.									+	I	+	I
Festuca rupicola (incl. F. valesiaca)	3	III	1	I	+-4	II	2	I	+-1	IV	+-4	III
Ficaria verna	+-2	IV	+-1	IV	+-4	II	+	II	+-2	II	+-2	III
Filipendula vulgaris	+	II	+-1	III	+	I	1	I	+	II	+-1	II
Fragaria vesca									+	III	+	I
Fragaria viridis			+	I			+-2	III	+-1	V	+-2	III
Fumaria schleicheri									+	I	+	I
Gagea pratensis									+	I	+	I
Galeopsis bifida									+	I	+	I
Galeopsis pubescens	+-1	II									+-1	I
Galeopsis speciosa					1	I					1	I
Galium aparine	+-2	III	+-1	V	+-2	III	1-2	II	+-1	IV	+-2	III
Galium mollugo	+-1	III	+	II	+-1	II	+-2	I	+	III	+-2	II
Galium palustre					+	I					+	I
Galium rubioides									+	I	+	I
Galium verum	+-1	II	+	III	+-1	I	+-2	II	+-2	V	+-2	IV
Geranium columbinum							+	I			+	I
Geranium robertianum	+-2	III	+	I	+-3	I	+	III	+	I	+-2	II

Geum urbanum	+-1	IV	+	IV	+-1	IV	+-2	IV	+-1	V	+-2	IV
Glechoma hederacea s.l.	+	I			+	I			+-2	III	+-2	II
Gypsophila muralis							+	I	+	II	+	I
Heracleum sphondylium	+	I									+	I
Hesperis sylvestris									+	I	+	I
Hieracium auriculoides agg.			+	I							+	I
Hieracium bauhinii agg.					+	I			+	I	+	I
Hieracium pilosella agg.					+	I					+	I
Hieracium umbellatum agg.			+	II	+	I					+	I
Humulus lupulus									+	I	+	I
Hypericum hirsutum									+	I	+	I
Hypericum perforatum	+	I			+	I	+	I	+	III	+	II
Hypericum tetrapterum	-	-							+	I	+	I
Inula britannica	-	-					+	I	+	III	+	I
Inula salicina	+-2	III	+-1	II	+-1	I	-	-	+-1	II	+-2	II
Iris spuria			+	I			1-2	I	+	III	+-2	II
Juncus compressus									+	II	+	I
Juncus conglomeratus			+	I							+	I
Juncus gerardii									+	I	+	I
Lactuca perennis			+	I							+	I
Lactuca quercina ssp. quercina	+	III	+	I	+	II					+	I
Lactuca serriola									+	II	+	I
Lamium album							+	I			+	I
Lamium purpureum			+-1	IV	+	I	+-2	IV	+-1	III	+-2	III
Lapsana communis	+	III	+	III	+-2	II	+-1	II	+	II	+-2	II
Lathyrus hirsutus									+	I	+	I
Lathyrus niger			+	I							+	I
Lathyrus pratensis			+	I	+	I					+	I
Lathyrus sylvestris									+	I	+	I
Lathyrus tuberosus									+	II	+	I
Lavatera thuringiaca									+	I	+	I
Leonurus cardiaca			+	I	+	I	+	II	+-1	III	+-1	II
Leonurus marrubiastrum									+	II	+	I
Limonium gmelinii ssp. hungaricum	+	II	+	I	+	I	+-1	I	+	IV	+-1	III
Linaria vulgaris							+-1	I	+	I	+-1	I
Lithospermum arvense									+	I	+	I
Lithospermum officinale					+	I			+	I	+	I

Lithospermum purpureo-coeruleum	+	I	+-1	I			2-3	II	+-1	III	+-3	II
Lotus angustissimus			+	I							+	I
Lotus corniculatus					+	I	+-2	II	+	I	+-2	I
Luzula campestris			+	I							+	I
Luzula multiflora			+	I							+	I
Lychnis flos-cuculi					+	I			+	II	+	I
Lycopus exaltatus									+	III	+	I
Lysimachia nummularia			+	I			+-2	II	+	III	+-2	II
Lysimachia vulgaris					+	I					+	I
Lythrum salicaria									+	I	+	I
Lythrum virgatum									+	I	+	I
Matricaria maritima ssp. inodora					+	I					+	I
Medicago falcata									+	I	+	I
Melampyrum cristatum	+	II	+	II	+	I					+	II
Melampyrum nemorosum			2-3	I							2-3	I
Melandrium album			+	I	+	II	+	I	+	III	+	II
Melandrium noctiflorum									+	I	+	I
Melandrium viscosum					+	I					+	I
Melica altissima	+-1	III	+	I	1	I	+	I	+	I	+-1	I
Melica transsilvanica									+	I	+	I
Melilotus albus									+	I	+	I
Mentha aquatica									+	I	+	I
Moehringia trinervia			+	I	+-2	II			+	I	+	I
Myosotis arvensis									+	I	+	I
Myosotis ramosissima									+	III	+	I
Myosotis sparsiflora							1	I	+	II	+	I
Myosotis stricta					+	I					+	I
Myosoton aquaticum					+	I			+	I	+	I
Nepeta pannonica	+	I									+	I
Odontites vulgaris							+	I	+	I	+	I
Onopordum acantium									+	I	+	I
Orchis morio					+	I					+	I
Ornithogalum orthophyllum	+	II			+	I					+	I
Ornithogalum umbellatum			+	IV					+	III	+	II
Pastinaca sativa							+	I	+	I	+	I
Peucedanum alsaticum	+	II	+	II	+	II			+	III	+	III
Peucedanum officinale	+-2	III	+	IV	+-4	III	+-2	II	+-1	V	+-4	IV

Phlomis tuberosa	+	I									+	I
Phragmites australis			+-1	II	+-2	III	+-1	I	1-2	I	+-2	II
Picris hieracioides									+	I	+	I
Pimpinella saxifraga									+	III	+	I
Plantago lanceolata							+	I			+	I
Plantago major									+	I	+	I
Poa angustifolia	+-2	IV	2	I	+-1	I					1-2	I
Poa annua							+-1	I			+-1	I
Poa bulbosa			+	I							+	I
Poa compressa			+	I							+	I
Poa nemoralis	+-4	III	+-1	II	+-4	IV					+-4	I
Poa palustris					+	I			+	I	+	I
Poa pratensis s.str.			+-2	IV	+-4	III	1-4	II	+-3	V	+-4	IV
Poa trivialis			1	I					+-1	V	+-1	II
Podospermum canum			+	I							+	I
Polygonatum latifolium	+-4	IV	+-1	III	+-2	III	+-2	III	+	I	+-4	II
Polygonum hydropiper									+	I	+	I
Potentilla argentea s.str.					+	I					+	I
Potentilla impolita									+-2	II	+-2	I
Potentilla leucopolitana					+	I					+	I
Potentilla recta									+	I	+	I
Potentilla reptans									+	I	+	I
Prunella vulgaris									+	I	+	I
Pulmonaria mollis	+-1	III	+	II	+-1	II					+-1	I
Pulmonaria officinalis s.str.							+	I			+	I
Ranunculus acris			+	I							+	I
Ranunculus pedatus					+	I					+	I
Ranunculus polyanthemos	+	II			+	I	+	I	+	IV	+	III
Ranunculus repens									+	I	+	I
Rumex acetosa			+	I					+	I	+	I
Rumex conglomeratus							+	I			+	I
Rumex crispus									+	IV	+	II
Rumex patientia									+	I	+	I
Rumex pseudonatronatus									+	I	+	I
Rumex sanguineus					+	I			+	III	+	I
Salvia nemorosa									+	I	+	I
Saxifraga bulbifera			+	I	+	I					+	I

Scilla vindobonensis	+-3	II	1	I	1-3	I			+	I	+-3	I
Scrophularia nodosa	+	II	+	II	+	II					+	I
Scutellaria hastifolia			+	II	+	I			+	I	+	I
Sedum maximum	+	I	+	III	+	I			+	I	+	I
Senecio erraticus ssp. barbaraeifolius					+	I			+	I	+	I
Senecio erucifolius ssp. tenuifolius									+	I	+	I
Serratula tinctoria	+-2	III	+	V	+-1	III	+-1	I	+-1	IV	+-2	IV
Sisymbrium strictissimum	+	I									+	I
Solanum dulcamara									+	I	+	I
Sonchus oleraceus							+	I			+	I
Stachys annua									+	I	+	I
Stachys germanica							+	I	+	I	+	I
Stachys recta							-	-	+	I	+	I
Stellaria graminea	+	II	+	II	+	I	+	II	+-1	III	+-1	II
Stellaria media			+-4	IV	+-2	II	1-2	II	+-1	IV	+-4	III
Stenactis annua									+	II	+	I
Symphytum officinale									+-1	I	+-1	I
Tanacetum vulgare					+	I			+	II	+	I
Taraxacum officinale			+	I	+	II			+	I	+	I
Thalictrum lucidum									+	I	+	I
Thlaspi perfoliatum									+	I	+	I
Thymus pannonicus							+	I	+	I	+	I
Tordylium maximum									+	I	+	I
Torilis japonica s.str.					+	I			+	II	+	I
Trinia ramosissima	+	I							+	I	+	I
Urtica dioica			+	I	+	I	+-2	IV	+-2	IV	+-2	III
Valerianella locusta									+	IV	+	II
Ventenata dubia			+	I							+	I
Verbascum blattaria			-	-					+	I	+	I
Verbascum phoeniceum	+	I	+	I	+	I					+	I
Veronica anagallis-aquatica									+	I	+	I
Veronica chamaedrys	+	I	+	II	+	I	+-2	II	+	III	+-2	II
Veronica hederifolia	+-1	III	+-1	III	+-1	I			+-1	V	+-1	III
Veronica longifolia					+	II					+	I
Veronica officinalis			+	I							+	I
Veronica praecox									+	I	+	I

Veronica serpyllifolia									+	I	+	I
Veronica spicata s.str.			+	I			+	I	+	II	+	I
Vicia cracca			+	I	+	I			+	III	+	II
Vicia hirsuta							+	I	+	I	+	I
Vicia pisiformis					+	I					+	I
Vicia sepium					+	I					+	I
Vicia tenuifolia							+	I			+	I
Vicia tetrasperma									+	I	+	I
Vincetoxicum hirundinaria	+-1	II	+-1	II	+-1	I			+	I	+-1	I
Viola arvensis							+-1	I	+	I	+-1	I
Viola cyanea	+-3	IV	+-1	III	+-3	IV	1-2	IV	+-2	V	+-3	IV
Viola hirta									+	IV	+	II
Viola montana									+	I	+	I
Viola odorata			+-3	II	+	I	+	I			+-3	I
Viola riviniana	+-1	II			+	I					+-1	I
Viscaria vulgaris	1	II	+	III	+-1	II					+-1	II

locality of the stands	**number of the relevés and the sampling methods**	**date of survey**	**informants**
Tiszántúl1: Kerecsend, Mezőcsát, Ohat, Újszentmargita	20 (AD)		Zólyomi, Tallós 1967
Tiszántúl2: Újszentmargita, Ohat, Hencida, Bélmegyer	10 (AD)		Molnár Zs. (unpublished)
Újszentmargita	20 (AD)		Tallós, Tóth 1968
Bélmegyer	30 (AD)		Molnár A. 1989
Körös-valley: Bélmegyer, Gyula	20 (AD)		Kevey (unpublished)

XII.1 *Fraxino pannonicaea-Alnetum*

total number of the stands: 10	north-eastern border - Tokaj	north-eastern border - Tokaj	Lake -Tisza	Szolnok - southern border	Szolnok - southern border	Kraszna	
number of the relevés: 10 (AD) + 61 (%) = 71	**average cover (%)**	**range of the AD values**	**AD**	**average cover (%)**	**range of the AD values**	**AD**	**K**
Upper canopy layer (A1)							
Alnus glutinosa	41.80	3	4		+-4	1	III
Fraxinus angustifolia ssp. pannonica	14.00	4				3	II
Fraxinus excelsior		1-3					I
Fraxinus pennsylvanica	6.60				+		I
Populus alba			2				I
Salix alba		1	2			1	II
Salix fragilis						1	I
Lower canopy layer (A2)							
Alnus glutinosa						2	I
Fraxinus angustifolia ssp. pannonica		2				1	I
Fraxinus pennsylvanica		1					I
Salix alba		+				1	I
Salix fragilis						1	I
Upper shrub layer (B1)							
Alnus glutinosa	5.04					+	I
Amorpha fruticosa			1				I
Cornus sanguinea	0.004						I
Frangula alnus	0.04	+				+	II
Fraxinus angustifolia ssp. pannonica	2.10	2				+	I
Fraxinus excelsior		+					I
Fraxinus pennsylvanica	7.00	2					I
Prunus spinosa	0.02						I
Quercus robur		+					I
Salix cinerea		1	1		+	2	II
Solanum dulcamara						+	I
Ulmus laevis	0.30						I
Ulmus minor		+					I

Lower shrub layer (B2)							
Alnus glutinosa							I
Calystegia sepium	0.20						I
Frangula alnus		+					I
Fraxinus angustifolia ssp. pannonica		+					I
Fraxinus pennsylvanica		1					I
Prunus spinosa							I
Quercus robur		+					I
Rubus caesius		+				+	I
Salix cinerea		+					I
Viburnum opulus						+	I
Herbaceous layer (C)							
Acer campestre	0.002						I
Acer negundo				0.53			II
Agrostis alba		+		8.18			I
Agrostis sp.					1		I
Alisma plantago-aquatica				0.12		+	II
Allaria petiolata				0.002			I
Alnus glutinosa	0.04			0.004			II
Alopecurus pratensis		+-2					I
Amorpha fruticosa				0.02			I
Angelica sylvestris				0.35	+		I
Ballota nigra				0.02			I
Bidens tripartitus				1.38	+	+	III
Bolboschoenus maritimus			+				I
Brachypodium sylvaticum	0.42			0.20			I
Calystegia sepium		+	1		1	1	III
Cardamine amara				0.06			I
Cardamine pratensis		+					I
Carex acutiformis		2	1			2	II
Carex appropinquata	0.02						I
Carex cuprina						+	I
Carex gracilis		1			2		I
Carex pseudocyperus				1.68			II
Carex riparia	52.00	2				3	II
Carex vesicaria						2	I
Carex vulpina		1					I

Chenopodium polyspermum	0.002						I
Circaea lutetiana				0.11			I
Clinopodium vulgare	0.10						I
Convallaria majalis		+-1					I
Convolvulus arvensis				0.002			I
Cornus sanguinea				0.04			I
Dryopteris carthusiana		+-1					I
Echinocystis lobata				0.04			I
Epilobium lanceolatum		+					I
Epilobium parviflorum			+				I
Epilobium tetragonum		+					I
Equisetum arvense			2				I
Equisetum fluviatile					+-1		I
Equisetum palustre				0.52			I
Eupatorium cannabinum				0.41	+-1	+	III
Euphorbia palustris		+					I
Fallopia convolvulus	0.20						I
Fallopia dumetorum		+					I
Festuca gigantea	0.02						I
Fraxinus angustifolia	12.60			1.63			II
Fraxinus pennsylvanica	11.40			0.84			II
Galium aparine	0.004			0.99	2		III
Galium boreale	0.60						I
Galium palustre	0.04	2	1	0.35		1	III
Galium rotundifolium	0.02						I
Geranium robertianum				0.20			II
Geum urbanum				0.12			II
Glechoma hederacea	10.60		1	4.09			II
Glyceria maxima	0.34	2	1			2	II
Hottonia palustris				0.07			I
Humulus lupulus	0.02		+				I
Impatiens noli-tangere		1-5				+	I
Iris pseudacorus		+		0.06	+-1		III
Lamium purpureum				0.002			I
Lapsana communis				0.04			I
Leersia orisoides		+	+	1.69	1		II
Lemna minor		+				+	I

Lycopus europeus	0.26	+	1	3.56	1-2	+	IV
Lycopus exaltatus				0.12			I
Lysimachia nummularia			1	0.61			II
Lysimachia vulgaris		+		0.06	+	+	II
Lythrum salicaria	0.002	+	+	0.004	2	+	III
Lythrum virgatum				0.02			I
Mentha aquatica				4.42			II
Mentha arvensis			1				I
Miosotis palustris				0.04			I
Moehringia trinervia		2-4					I
moss	0.20						I
Myosoton aquaticum	0.10			1.54	1		III
Oenanthe aquatica	0.004	+				+	II
Peucedanum palustre	0.20						I
Phalaris arundinacea		+					I
Phragmites australis					+		I
Poa palustris	0.00	+					I
Poa sp.					1		II
Poa trivialis		+		0.33			I
Polygonatum latifolium	0.002						I
Polygonatum multiflorum		1					I
Polygonum hydropiper		2				1	I
Polygonum lapathifolium			1				I
Polygonum mite				1.24			II
Populus alba			+				I
Ranunculus auricomus		+					I
Ranunculus repens	0.002	+	2	0.93			III
Robinia pseudo-acatia				0.02			I
Rubus caesius	1.00	+-1	1	0.04			II
Rumex hydrolapathum				0.72			II
Rumex sanguineus				0.01			I
Salix alba			1				I
Sambucus nigra				0.43			I
Schrophularia nodosa				0.04			I
Scutellaria galericulata				0.02			I
Sium erectum				0.86			I
Sium latifolium				0.61		+	II

Solanum dulcamara	0.02	+	1	1.11	3	1	IV
Solanum nigrum				0.002			I
Solidago gigantea			2				I
Sparganium erectum	0.002	+		1.15		1	III
Stachys palustris	1.92	1					I
Stellaria media				0.61			I
Stenactis strigosa				0.97			I
Symphytum officinale	3.42	1	+	0.56	+-1	1	IV
Tanacetum vulgare			1				I
Teucrium scoridum						1	I
Thalictrum flavum					+		I
Thelipteris palustris				0.02	4		II
Thypha angustifolia				0.004			I
Torylis japonica				0.43			I
Typha latifolia				0.22		+	II
Ulmus laevis	0.002						I
Urtica dioica	0.21	+		2.63	+-1		IV
Urtica kioviensis				0.16	3		II
Urtica urens	0.22						I
Valeriana officinalis					1		I
Vitis riparia				0.07			I

locality of the stands	number of the relevés and the sampling methods	date of survey	informants
Tisza from the north-eastern border to Tokaj			
Dámóci-erdő, Dámóc	5 (%)	October 2006	Nagy János et al. (in Gál et al., 2006)
Dusa-hát, Márokpapi	1 (AD)	June 2004	Balázs Kevey (unpublished)
Bockerek-forest, Gelénes	5 (AD)	1950	Tibor Simon (Simon, 1950)
Lake -Tisza			
Abádszalók cestion no.: 153	1 (AD)	August 1989	Mihály Vas, Zoltán Tuba (Vas, Tuba 1989)
Tisza from Szolnok to the southern border			
Tőserdő, Tiszaalpár	28 (%)	August 1987	Sándor Bancsó (Bancsó, 1987)
Tőserdő, Tiszaalpár	21 (%)	August 1987	Sándor Bancsó (Bancsó, 1987)
Tőserdő, Tiszaalpár	7 (%)	August 1987	Sándor Bancsó (Bancsó, 1987)
Tiszaalpár	1 (AD)	October 1962	György Bodrogközy (unpublished)
Tőserdő, Tiszaalpár	1 (AD)	October 1962	György Bodrogközy (unpublished)
Kraszna			
Vadaskerti-erdő, Tiborszállás	1 (AD)	June 2004	Balázs Kevey (unpublished)