Alien fraction of Chernihiv urban flora: analysis and checklist

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Abstract: The results of complex analysis of alien species of the urban flora of Chernihiv (Forest zone of Ukraine) are presented. The total nonnative flora of Chernihiv includes 263 species. It comprises 25% of the total number of the urban flora species. Following groups prevail in ecological, geographical, life forms and coenotic spectra of the alien fraction of the urban flora: submesophytes, those of Mediterranean origin, annual, ruderal plants. After its taxonomic structure the studied urban flora is similar to the zonal flora of Polissya, but has closer relations to the flora of the ancient Mediterranean area due to its synanthropization.

Key words: urban flora, alien species, archaeophytes, kenophytes, Chernihiv, Ukraine

1. Introduction

Recently on the territory of Ukraine the floristic studies have been conducted in many cities of various geographical zones (Burda 1997; Moysiyenko 1999; Mosyakin & Yavorska 2003; Kagalo *et al.* 2004; Gubar 2006; Arkushyna 2007; Iepikhin 2008; Khlystun 2006). However, urban floras have not been studied in the north of the country. Therefore the study of the Chernihiv urban flora, and its alien fraction in particular, is timely and of current interest.

Chernihiv is situated in the Forest zone of Ukraine on the right bank of the Desna River (Fig. 1). It's geographical position is N 48°37' E 22°18'. The area of the city occupies 78 square km, the population is 299.0 thousand inhabitants. It is an administrative, transport, social and economic center of the Chernihiv region. Chernihiv is one of the oldest cities in Ukraine. It was founded in the VII-VIII century A.D.

At the Kiev Rus time (historical period from IX to the first half of XIII century A.D.) it was the second significant city after Kiev. Complicated history of the Chernihiv city influenced the development of the urban flora. Chernihiv traded with Caucasus, Byzantium, Mediterranean countries, which contributed to deliberate or unintentional introduction of different plant species which enriched the urban flora. In different historical

periods the city was under authority of different countries (Poland, Lithuania, Russia, Germany), which influenced negatively on its development (frequent wars cased nearly total destruction of the city). In fact, the natural forest phragments had not preserved on the territory of the city, this is to say that almost all forest phragments are plantations of forest parks or parks. It is notable that most of these plantations were the species of the native flora but with different nonnative species which were naturalized later. As a result of the special study of the Chernihiv urban flora 1050 plant species which occur spontaneously within the administrative borders of the city have been found. Almost a fourth of the total species number is comprised by the species of alien fraction. A brief analysis of this plant group and the checklist of the non-indigenous plants of the Chernihiv urban flora in this report are provided.

2. Material and methods

The research of the alien plants species of the city of Chernihiv was carried out in 2001-2007. Researches were executed by the field survey method and comparative taxonomical, geographical (origin of alien species) method of study. Other used sources of data were: literature and herbarium collections (KW, Chernihiv Pedagogical University). While carrying out the immigration





Fig. 1. Location of Chernihiv on the territory of Ukraine

analyses of the alien fraction of the urban flora of Chernihiv, the classification of alien plants (Kornaś 1968) modified by Protopopova (1991) are used. The following degrees of naturalization: ephemerophytes (non-naturalized, occasional immigrants, casuals, or waifs), colonophytes (epoecophyte occurring in the area in one to several stable colonies but showing little or no trend toward further expansion), epoecophytes (naturalized in human-made and disturbed habitats), agriophytes (naturalized in natural and seminatural habitats) are used. Taxonomic structure of nonnative species have been analyzed (Tolmachev 1974). For each weed species included in the study, the following information was assembled: biological type (Raunkiaer 1934), type of root system and underground shoots, life form (Serebriakov 1962), origin (Protopopova 1991), confinedness to the city zones and frequency of occurring. For ecological analysis the species were divided into the ecological groups according to requirement of insolation and in relation to humidity (Didukh 2000a, 2000b). The species names are given according to "Vascular plants of Ukraine. A nomenclatural checklist" (Mosyakin & Fedoronchuk 1999).

3. Results

The alien component of the Chernihiv urban flora includes 263 species which constitutes 25% of the total

number of vascular plant species of the studied flora and 31.7% of the total number of nonnative component of the flora of Ukraine (Protopopova *et al.* 2006). The alien component of the flora of Ukraine constitutes 13.8% (less as 1.8 times), which confirms a considerable role of cities in spread of alien species, as well as the high level of anthropogenic transformation of the urban floras due to urbanization (comp. Appendix 1).

According to the time of immigration the nonnative flora of the Chernihiv city is divided into archaeophytes (91 species of plants) and kenophytes (172 plant species). Nonnative species belong to 174 genera (45 -only archaeophytes, 107 -only kenophytes, 22 -archaeophytes and kenophytes) and 57 families.

An important characteristic of an alien species within flora is the degree of its naturalization. Among the nonnative plants of the Chernihiv urban flora epoecophytes (166 species) prevail, other groups are smaller: agriophytes (18), colonophytes (43), and ephemerophytes (36). Thus the stable component (i.e species with high degrees of naturalization, agriophytes and epoecophytes) of the nonnative fraction of the Chernihiv urban flora comprises 70% (184 species).

Taxonomic spectrum of 10 leading places from the alien fraction includes 13 families, they are arranged after the number of species in decreasing order: Asteraceae (27 genera; 46 species); Brassicaceae (18; 28); Poaceae (15; 26); Chenopodiaceae (6; 15); Fabaceae (9; 14);

Solanaceae (8; 10), Rosaceae (8; 10); Lamiaceae (7; 9); Boraginaceae (7; 7); Apiaceae (6; 6); Caryophyllaceae (5; 5), Polygonaceae (3; 5), Scrophulariaceae (1; 5). Three leading families comprise 60 genera (34.5%) and 100 species (38%). Thirteen leading families aggregate 120 genera (69%) and 186 species (71%). The number of families with one or two species amounts 34 (59.6%), which totals 43 plant species (16%). This allocation with leading families enclosing almost two thirds of the species number is typical for alien and synanthropic floras of Ukraine (Protopopova 1991; Mosyakin & Yavorska 2003; Gubar 2006).

According to the results of investigation, only eleven leading genera after the species number are selected, but they occupy first three places in the spectrum of genera, since the allocation of genera after the species number is as follows: the biggest after the species number is the genus *Chenopodium* (6), genera *Veronica* and *Vicia* have 5 species each; *Amaranthus, Atriplex, Brassica, Bromus, Papaver, Setaria, Sisymbrium, Xanthium* have 4 species each. 11 genera have 3 species, 23 genera – 2, the rest 129 genera are monotypic, which is typical for alien fraction of urban floras (Ilminskikh & Shmidt 1986; Protopopova 1991; Moysiyenko 1999; Panasenko 2002).

For the analysis of the biomorphological structure in the alien fraction of the urban flora biotypes have been considered (Raunkiaer 1934), as well as root system or underground shoots type, and life forms of the studied species (Serebriakov 1962). Generally the analysis of biological types and life forms of the species on the example of the studied alien flora of Chernihiv allowed noting same its features which are typical for alien flora of Ukraine (Protopopova 1991). In particular, most of the nonnative plants in the urban flora of Chernihiv are herbaceous (233; 88.6%), more than half are annuals (150; 57%), the rest are perennials (113; 43%). Among the perennials there are: herbaceous polycarps (53), biennial monocarps (28), shrubs (12), trees (18) woody vines (2).

In the alien fraction of the Chernihiv the following biotypes of plants occur: therophytes (157), hemicryptophytes (67), phanerophytes (30), geophytes (5), helophytes (1), chamaephytes (2) and hydrophytes (1). Among the types of root system and underground shoots the taproot type prevails (209 species), the rest have fibrous roots (41), rhizome (12). Hence the confinedness of the nonnative fraction of the Chernihiv urban flora to human-made habitats conditions on the small diversity of life forms of the species in this group.

The alien fraction of the Chernihiv urban flora varies in origin. The basis for this group of plants is comprised by the species of Mediterranean origin (54 plant species), North American (54), and Asian origin (40 plant species, including species which originated from East (10), Central (5), South (2), South-Eastern (4), South-Western (2) and Minor Asia (1)). According to the results of investigation, the most of the plant species with Mediterranean origin are archaeophytes. The most species among the group of plants originating from North America are kenophytes, which enriched the urban flora of Chernihiv during the 20th century. Twenty nine species have Mediterraneo-Irano-Turanian origin, 17 originated from Central and Southern Europe, 16 have Irano-Turanian origin, 9 from Central and South America, for 7 species the origin is unknown, 3 are the species of anthropogenic origin. Besides there are 1-2 species of Indo-Malayan, Euro-Siberian, Mediterraneo-Turanian, Iranian and Mediterraneo-Athlantic-European, Caucasus and other origins. This allocation of alien species after their origin enables tracing of floristic relations of the studied flora with the floras of adjacent territories and other continents. Taking into account the degree of naturalization of the species it gives an idea on the period of dispersal to the city's territory.

An important role in the process of naturalization of alien plants in the "foreign" for them territories belongs to the conditions of the environment (Burda 1991). The specifity of conditions in urban environments lies first of all in its aridization (Ilminskikh 1989). That is in the conditions of a city plants have more heat and less moisture, which promotes successful naturalization of the species which inhabit open plots and are able to survive long term droughty conditions. Taking this into account in the research, the attention is paid to humidity and insolation as growth conditions for alien plants in Chernihiv. It is established that among the nonnative plants of the studied territory the group of submesophytes prevail (154 species). The second place is occupied by mesophytes (75 species), which can be explained by two rivers floating thru the city as well as many natural and artificial water reservoirs with ditch water. Subxerophytes (29), xerophytes (2), hygrophytes (1) and hydrophytes (2) also occur there. The alien species have following allocation in ecological groups after requirements of insolation: heliophytes (186), scioheliophytes (65), heliosciophytes (7), sciophytes (5). Thus the species growing in open areas with moderate soil humidity prevail in the alien fraction of the Chernihiv urban flora.

Diversity of plant communities in which alien species occur is important for evaluation of success of naturalization of the species. On the territory of Chernihiv 11 ecological-coenotic groups with nonnative plant species in their composition are noted. The species are distributed among the groups as following: aquatic (1), littoral (4), meadow-bog (1), wet meadow (1), meadow (16), meadow-steppe (9), forest (39), forest margins (11), segetal (56), ruderal (234), psammophytic (4). Thus, the majority of species occurs in antropically changed habitats within the composition of ruderal and segetal communities; few species occur in seminatural and natural ecotopes in meadow, meadow-steppe, forest, forest margins communities.

The species composition of the Chernihiv urban flora is established, in particular its alien fraction, 50 representatives of the latter has enriched the city flora during last 10-20 years (*Ambrosia artemisifolia*, *Phytolacca americana*, *Hemerocallis lilioasphodelus*, *Grindelia squarrosa*, *Heracleum mantegazzianum*, *Bidens frondosa*, *Rudbeckia laciniata*, *Oenothera depressa* and others). In conclusion it is worth to mention that nonindigenous flora is a dynamic component of urban flora; processes and mechanisms of alien species naturalization and their interactions with natural flora require further fundamental study in order to prevent plant invasion which is a threat to biodiversity in any natural zone (Protopopova *et al.* 2002).

4. Conclusions

According to the taxonomic structure the studied urban flora is similar to the zonal flora of Polissya, but has closer relations to the flora of the ancient Mediterranean due to its synanthropization. It is established that the result of urbanization of the studied flora is the higher position of the families Brassicaceae, Chenopodiaceae and Fabaceae in the spectrum of leading families in its alien fraction. This is typical for arid territories. The results of biomorphological analysis point to prevalence of annuals over perennials, terophytes over hemicryptophytes, and tap rooted plants according to the type of root system. Alien fraction amounts 25% of the total urban flora, which points to the considerable anthropogenic transformation of the latter. According to the results of the ecological analysis 87% of the alien fraction comprises submesophytes and mesophytes, 71% - heliophytes; species of the ruderal group amount 89% according to the ecological-coenotic confinedness. Kenophytes prevail according to the time of immigration; Mediterranean and North American plant species - after the origin, epoecophytes - after the degree of naturalization.

Thus, according to the obtained results, the studied flora is under considerable anthropogenic pressure, which is reflected in the significant role of its alien component in the vegetative cover of urbanized landscapes of the town of Chernihiv.

Acknowledgements. I would like to thank my colleague Olga Korniyenko (M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine, Kyiv) for translation and correction of the text.

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Appendix 1. Checklist of the alien fraction of Chernihiv urban flora

Families and species	1	2	3	4	5	6	7
Araceae							
Acorus calamus L.	Ar	As	Agr	Ms	Lit	Surb	R
Hemerocallidaceae			Ũ				
Hemerocallis lilioasphodelus L.	Kn	EAs	Col	Ms	Rud, Seg, M	Urb&Surb	S
Hydrocharitaceae							
Elodea canadensis Michx.	Kn	NAm	Agr	Hd	Aq	Urb&Surb	С
Iridaceae							
Sisyrinchium septentrionale Bicknell	Kn	NAm	Agr	Ms	М	Surb	R
Juncaceae							
Juncus tenuis Willd.	Kn	NAm	Agr	Ms	M, wM	Surb	С
Liliaceae			_				~
Gagea pratensis (Pers.) Dumort.	Ar	Med	Еро	Ms	М	Urb	S
Poaceae				0.116			0
Anisantha sterilis (L.) Nevski	Ar	Medil	Epo	SubMs	Rud	Urb&Surb	C
Anisantha tectorum (L.) Nevski	Ar	MedEI	Еро	SubMs	Kud M. D.: 1	Urb&Surb	C
Apera spica-venti (L.) P. Beav.	Ar Vr	un SEur	Epo	SubMa	M, Kud	Urb&Surb	5
Avena sativa L.	NII Ar	SEur	Еро Еро	SubMa	Rud	Urb&Surb	S C
Bromus commutatus Schrad	Kn	CEur	Epo	SubMe	Rud	Urb&Surb	C C
Bromus socilinus I	Ar	EMed	Epo	Me	Rud	Urb&Surb	s
Bromus squarrosus I	Kn	MedIT	Epo	SubMs	Rud M-S	Urb&Surb	C
Ceratochloa carinata (Hook & Arn) Tutin	Kn	NAm	Epb	SubXr	Rud	Urb	R
Digitaria aegyntiaca (Retz.) Willd	Kn	As	Eno	SubMs	Rud	Urb	R
Digitaria ischaemum (Schreb.) Muehl.	Ar	CEur	Epo	SubMs	Rud	Urb&Surb	R
Digitaria sanguinalis (L.) Scop.	Ar	S-EAs	Epo	SubXr	Rud	Urb&Surb	C
Echinochloa crussgalli (L.) P. Beauv.	Ar	As	Epo	Ms	Seg. Rud	Urb&Surb	Č
Eragrostis minor Host	Kn	SEur	Epo	SubMs	Rud	Urb&Surb	S
Eragrostis pectinacea (Michx.) Nees	Kn	NAm	Eph	SubMs	Rud	Urb	R
Eragrostis pilosa (L.) P. Beauv.	Kn	Med	Col	Ms	Rud	Urb	R
Hordeum murinum L.	Ar	MedIT	Col	SubXr	Rud	Urb	С
Leymus sabulosus (M. Bieb.) Tzvelev	Kn	PontCa	Eph	SubXr	Psam	Surb	R
Lolium remotum Schrenk	Ar	а	Еро	Ms	Rud	Urb	S
Panicum capillare L.	Kn	NAm	Eph	SubXr	Rud	Urb	S
Setaria glauca (L.) P. Beauv.	Ar	IMal	Epo	Ms	Rud	Urb&Surb	С
Setaria italica (L.) P. Beauv.	Kn	As	Eph	SubMs	Rud	Urb	0
Setaria verticillata (L.) P. Beauv	Ar	IMal&Sud	Еро	SubMs	Rud	Urb	S
Setaria viridis (L.) P. Beauv.	Ar	MedIT	Epo	SubMs	Rud	Urb&Surb	С
Sorghum halepense (L.) Pers.	Kn	Med	Col	SubMs	Rud	Urb	R
Zea mays L.	Kn	C&SAm	Eph	SubMs	Rud, Seg	Urb&Surb	R
Typhaceae	17	MalCA	C-1	ττ.	De 1 D	C1-	C
<i>Typna taxmannii</i> Lepech.	Kn	MedCAs	Col	Hg	Kua, B	Surb	2
Aceraceae	Vn	NAm	1 ~~	Ma	Dud E	I Inla Pe Quanta	C
Acer negunao L.	KII	NAm	Agr	Mg	Rud, F	Urb & Surb	C
Acer saccharinum I	Kn	NAm	Eno	IVIS Me	Rud, F	Ulth	s
Amaranthaceae	ixii	1 17 111	Lpo	1415	Rud, I	010	5
Amaranthus albus L	Kn	NAm	Eno	SubMs	Rud	Urb&Surb	С
Amaranthus hitoides S. Watson	Kn	NAm	Epo	SubXr	Rud	Urb&Surb	Č
Amaranthus blitum L.	Kn	SEur	Epo	SubXr	Rud	Urb&Surb	Š
Amaranthus retroflexus L.	Kn	NAm	Epo	SubMs	Rud	Urb&Surb	Ĉ
Apiaceae			1				
Aethusa cynapium L.	Ar	CEur	Еро	SubXr	Rud, F	Urb&Surb	S
Anetum graveolens L.	Kn	MedIT	Eph	Ms	Rud, Seg	Urb&Surb	С
Conium maculatum L.	Ar	MedIT	Epo	SubMs	Rud	Urb&Surb	С
Coriandrum sativum L.	Kn	Med	Eph	SubMs	Rud, Seg	Urb&Surb	R
Heracleum mantegazzianum Sommier & Levier	Kn	Са	Col	Ms	Rud	Surb	R
Levisticum officinale W. D. J. Koch	Kn	Ι	Col	Ms	Seg, Rud	Urb&Surb	R
Apocinaceae							
Vinca minor L.	Kn	Med	Agr	Ms	F	Surb	S
Asclepiadaceae							
Asclepias syriaca L.	Kn	NAm	Еро	SubMs	Rud	Surb	R
Asteraceae	T 7		-	0.115	D 1	11100 1	c
Ambrosia artemisifolia L.	Kn	NAm	Epo	SubMs	Rud	Urb&Surb	S
Anthemis cotula L.	Ar	Med	Epo	SubMs	Seg, Rud	Urb&Surb	C
Artemisia absynthium L.	Ar V	11	Еро	IVIS SubMa	Kud	UID&SUID	C e
Artemisia dracunculus L	Kn	As	Col	Ms	Rud	Urb&Surb	s S
							2

Aster nova-angliae L.	Kn	NAm	Col	Ms	Rud	Urb&Surb	R
Aster novi-helgii I	Kn	NAm	Col	Ms	Rud	Urb&Surb	R
hister novi-beigh L.	IXII IX			1015	Ruu	Ulbasul	R C
Bidens frondosa L.	Kn	NAm	Agr	Ms	M-B, Rud	Urb&Surb	C
Calendula arvensis L	Kn	Med	Eno	SubMs	Rud	Urb&Surb	S
	IZ	N/ 1	Epc E	1401015	D 1	UILOC 1	D
Calenaula officinalis L.	Kn	Med	Еро	MIS	Kua	UrbæSurb	K
<i>Carduus acantoides</i> L.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	S
Carduus cinaraus M. Bieb	Kn	IT	Eno	SubMe	Pud	Urb&Surb	S
Curuus cinereus M. Dico.	IXII	11	Lpo	Subivis	Kuu	oroasuro	5
<i>Carduus nutans</i> L.	Ar	Med	Еро	SubXr	Rud	Urb&Surb	С
Centaurea cyanus I	Δr	Med&SFur	Eno	SubMs	Seg Rud	Urb&Surb	S
	7 11	MedeebEur	Lpo	Subivis	Beg, Rud	UID COULD	0
Centaurea diffusa Lam.	Kn	MedIT	Еро	Xr	Rud	Urb&Surb	S
Cichorium intybus L	Ar	MedIT	Eno	SubMs	Rud	Urb&Surb	С
	17	NTA	A	M	D-1 M M C	LL1 0 C1	õ
Conyza canadensis (L.) Cronq.	Kn	NAm	Agr	MIS	Rua, M, M-S	UrbæSurb	C
Cosmos bipinnatus Cay.	Kn	CAm	Col	SubMs	Rud	Urb&Surb	S
Calingana namiflang Car	Vm	S A m	Emo	Ma	Sec. Dud	I Inla & Camba	C
Galinsoga parvijiora Cav.	NII	SAIII	сро	IVIS	Seg, Kud	UlbaSulb	C
Galinsoga urticifolia (Kunth) Benth.	Kn	CAm or SAm	Col	Ms	Seg, Rud	Surb	R
Grindelia squarrosa (Pursh) Dunal	Kn	NAm	Eno	SubMe	Rud	Urb	S
Ormaena squarrosa (Euisii) Dunai	IX11	INAIII	сро	Subivis	Kuu	010	3
<i>Helianthus annuus</i> L.	Kn	NAm	Col	SubMs	Rud	Urb&Surb	S
Helianthus subcanescens (A Gray)	Kn	NAm	Eno	Ms	Rud	Urb&Surb	S
Heltaninus subcuncscens (N. Gluy)	111		Lpo	1015	Rud	Ulbasuit	0
Helianthus tuberosus L.	Kn	NAm	Еро	Ms	Rud	Urb&Surb	C
Helionsis scabra Dunal	Kn	NAm	Eno	SubMs	Rud Fm	Surb	S
	17		Epc E	C 1 M	D 1	TT LOC 1	G
Iva xanthufolia Nutt.	Kn	NAm	Еро	SubMs	Rud	Urb&Surb	C
Lactuca serriola L.	Ar	MedIT	Epo	SubMs	Rud	Urb&Surb	С
Lanidathaag guuaalang (Durch) Nutt	Vn	NAm	-r- Emo	Ma	Dud	Link & Cumb	Ĉ
Lepidoineca suveoiens (Pursh) Nutt.	KII	NAIII	Еро	IVIS	Rud	UrbæSurb	C
Onopordum acanthium L.	Ar	Med	Epo	SubXr	Rud	Urb&Surb	S
Patasitas spurius (Petz) Pahh	Kn	FurSib	Eno	Me	T it	Such	S
<i>Teusues spurius</i> (Retz.) Reno.	IXII	Eursio	Lpo	1015		Suro	3
<i>Phalacroloma anuum</i> (L.) Dumort.	Kn	NAm	Agr	Ms	Rud, M-S, M, F	Urb&Surb	С
Phalacroloma sententrionale (Fernald & Wiegand) Tzyeley	Kn	NAm	Eno	Ms	Rud M F	Urb&Surb	S
Phalactorional septeminonale (1 emaile & Wiegand) 12velev	15.11		Epo	1415	Ruu, 11, 1	UIUCEBUIU	5
Phalacroloma strigosum (Muehl. ex Willd.) Tzvelev	Kn	NAm	Eph	Ms	Rud	Urb	R
Rudbeckia hirta L.	Kn	NAm	Epo	SubMs	Rud. Seg	Urb&Surb	S
	IZ	NIA	Ene	CI.M.	Dead Car	Ulul Q.Cl	õ
Ruadeckia laciniata L.	Kn	NAM	Еро	Subivis	Rua, Seg	UrbæSurb	5
Senecio viscosus L.	Kn	CEur	Epo	SubMs	Rud	Urb&Surb	С
Samagia undagria I	۸	A c	Eno	SubMa	Dud	I Joh Pr Cumb	C
Senecio vulgaris L.	AI	AS	Еро	Subivis	Kuu	OldaSuld	C
Solidago canadensis L.	Kn	NAm	Epo	Ms	Rud, M	Urb&Surb	S
Solidago serotinoides A. Löve & D. Löve	Kn	NAm	Col	Me	Rud M Em	Urb&Surb	S
Solidago serolinolaes A. Love & D. Love	IXII			1015		Ulbasult	5
Sonchus arvensis L.	Ar	Med	Еро	Ms	Rud, Seg	Urb&Surb	C
Sonchus oleraceus L	Ar	Med	Eno	Ms	Rud Seg	Urb&Surb	С
T: 1 (L) (L) (L) D:		ivica ,	Epo E	1/15	D 1	UIL OC 1	c
Tripleurospermum inodorum (L.) Sch. Bip.	Ar	As	Еро	MIS	Kua	UrbæSurb	C
Xanthium albinum (Widder) H. Scholz	Kn	CEur	Epo	SubMs	Rud, M	Urb&Surb	S
Vanthium vinicola Holub	Vn	CEur	Eno	SubMa	PudLit	I Irb & Surb	c
	NII	CEUI	сро	Subivis	Kud, Lli	UlbaSulb	3
Xanthium spinosum L.	Kn	SAm	Epo	SubMs	Rud	Urb&Surb	S
Vanthinna strumanium I	٨٣	IT	Eno	SubMa	Pud	I Irb & Surb	S
Autonium strumurium L.	л	11	сро	Subivis	Ruu	oroasuro	5
Balsaminaceae							
Impatiens alandulifera Royle	Kn	S-FAs	Eno	Hσ	Rud Lit	Urb&Surb	S
Imputtens Standauffer a Rojte.	15.11	S EI IS	Lpo	115			G
Impatiens parviflora DC.	Kn	CAs	Agr	Ms	Rud, F, Fm	Urb&Surb	C
Boraginaceae							
An aline a afficientia I	۸	Mad	Emo	Cult Va	David	I Jule & Carula	C
Anchusa officinalis L.	Ar	Med	Еро	SUDAT	Rud	UrbæSurb	C
Borago officinalis L.	Kn	Med	Epo	SubMs	Seg	Surb	R
Puglossoidas amansis (L) LM Johnst	٨٣	ModIT	Eno	SubMa	Pud	I Irb & Surb	C
Dugiossolues ul vensis (L.) 1. WI. Johnst.	AI	Medill	Еро	Subivis	Kuu	oroasuro	C
Cynoglossum officinale L.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	С
Lannula sauarrosa (Retz.) Dumort	Ar	MedIT	Eno	SubMs	Rud	Urb&Surb	С
		N/ 1	Epo E	C 1 M	D 1	UILOC 1	c
Lycopsis arvensis L.	Ar	Med	Еро	SubMs	Rud	Urb&Surb	C
<i>Myosotis arvensis</i> (L.) Hill	Ar	MedIT	Epo	Ms	Rud, Fm, M-S	Urb&Surb	С
Ducarian and the control ()			-p •				-
Drassicaceae							
Arabidopsis thaliana (L.) Heynh.	Kn	MedIT	Epo	SubMs	Rud	Urb	S
Armoracia rusticana P. Gaertn B. Mey & Scherh	Kn	IT	Col	Ms	Rud Seg	Urb&Surb	S
Armoruciu rusiicunu 1. Oderui., D. Mey. & Senero.	IXII	11	-	1015	Rud, Beg	orocouro	5
Brassica campestris L.	Ar	CAs	Еро	SubXr	Rud, Seg	Urb&Surb	S
<i>Brassica juncea</i> (L.) Czern	Kn	S-EAs	Col	SubMs	Rud Seg	Urb	S
Di assica fancca (E.) ezern.	12	S EI IS	E 1	C 1 M	D 1 G	0.1	0
Brassica napus L.	Kn	SEur	Eph	SubMs	Rud, Seg	Surb	S
Brassica nigra (L.) W.D.J. Koch	Kn	Med	Eph	Ms	Rud, Seg	Surb	S
Puniae orientalie I	V.	EMad	-r F	SubMa	Dud	I Inh P. C.	C
Dunias Orientalis L.	I/I	LIVIEd	сро	SUDIVIS	Kuu	oroasuro	3
<i>Camelina microcarpa</i> Andrz.	Ar	MedET	Epo	SubMs	Rud, Seg	Urb&Surb	S
Canaolla huraa nastoria (L.) Modile	۸	1112	Eno	SubMa	Dud M S	I Jul Pr Cumb	C
Capseita barsa-pasionis (L.) Medik.	AI.	ull	Eho	SUDIVIS	Kuu, M-S	oroasuro	C
Cardaria draba (L.) Desv.	Kn	SEur & As	Epo	SubMs	Rud	Urb&Surb	S
Diplotaxis tenuifolia (L.) DC	Kn	Med	Fno	SubYr	Rud	Urb	S
		med	E PO	GIN	Truu Truu		2
Descurania sophia (L.) Webb ex Prantl	Ar	TT	Еро	SubMs	Rud	Urb&Surb	S
Ervsimum cheiranthoides L	Ar	un	Eno	SubMs	Rud Fm	Urb&Surb	С
	17	C TTTA	- LPO	1/	D. 1		P
Hesperis sibirica L.	Кn	S-WAS	Eph	Ms	Rud	Urb&Surb	К
Lepidium densiflorum Schrad	Kn	NAm	Enh	SubMs	Rud	Urb&Surb	S
I and diama dama la T	A .	TT	- PH	C. 1.3.4	D 1	ILL OC 1	2
Lepiaium ruaeraie L.	Ar	11	Еро	SubMs	Kud	Urb&Surb	8
Lepidium sativum L.	Kn	As	Eph	SubMs	Rud. Seg	Surb	S
					,8		

Neula provincializationa L. Ar Ar Epo SubMas Rud. Cub Sa Raphonare statisticationa L. Kn Med Cal SubMas Rud. Sub Sub <th>Lunaria annua L.</th> <th>Kn</th> <th>SEur</th> <th>Eph</th> <th>Ms</th> <th>Fm</th> <th>Surb</th> <th>0</th>	Lunaria annua L.	Kn	SEur	Eph	Ms	Fm	Surb	0
Raphana sarbarabarabarabarabarabarabarabarabarab	Neslia paniculata (L.) Desv.	Ar	a	Epo	SubMs	Rud	Urb	Š
Raphanes same a Kn Med Col Subh Raphar abe Nuch Stands Stands <td>Raphanus raphanistrum L.</td> <td>Ar</td> <td>Med</td> <td>Epo</td> <td>SubMs</td> <td>Rud, Seg</td> <td>Urb&Surb</td> <td>S</td>	Raphanus raphanistrum L.	Ar	Med	Epo	SubMs	Rud, Seg	Urb&Surb	S
Singis albu L. Ar MediT Epp Ms Seg. Raid Subb R Source alburg arrows L. Kn Med Equations alburg arrows L. Ar Med Equations alburg arrows L. Ar Med Equations alburg arrows L. Ar T Equations alburg arrows L. Ar T Equations alburg arrows L. Ar T Equations are alburg arrows are alburg are alburg arrows are alburg arrows are alburg arrows are alburg are alburg are alburg are alburg arrows are alburg ar	Raphanus sativus L.	Kn	Med	Col	SubMs	Rud, Seg	Surb	S
Snapis sourcest L. Ar MedAllErr Epo SubMs Seg. Rud UrbäSurb C. Ssyndrivan discriman L. Kn Ster & As Epo SubXr Rud UrbäSurb C. Ssyndrivan discriman localita (L.) Sepo. Ar Med & As Epo SubXr Rud UrbäSurb C. Ssyndrivan discriman polymorphum (Marray) Ruth Kn Mr Epo SubXr Rud UrbäSurb C. Ssyndrivan discriman polymorphum (Marray) Ruth Kn Mr Epo SubXr Rud UrbäSurb S. Creating and the analysis of the subXr Rud UrbäSurb S. Creating and the analysis of the subXr Rud UrbäSurb S. Creating and the analysis of the subXr Rud UrbäSurb S. Creating and the subXr F. UrbäSurb S. Creating and the subXr F. UrbäSurb S. Consolita start. Kn Sib Eph SubXr F. UrbäSurb S. Lonivers tatarica L. Kn Sib Eph SubXr F. UrbäSurb S. Caryophylacea. Here and the subXr F. UrbäSurb S. Source and the subXr K. Kn Med Epo SubMs Rud UrbäSurb S. Source and the subXr K. Kn Med Epo SubM. Rud UrbäSurb S. Source and the subXr K. Kn Med Epo SubM. Rud UrbäSurb S. Source and the subXr K. Kn Med Epo SubM. Rud UrbäSurb S. Source and the subXr K. Kn Med Epo SubM. Rud UrbäSurb S. Source and the subXr K. Kn Med Epo SubM. Rud UrbäSurb S. Cheoropadion bright L. Ar Med Epo SubM. Rud UrbäSurb S. Cheoropadion bright SubXr K. Kn Med Epo SubM. Rud UrbäSurb S. Cheoropadion bright SubXr K. Kn Med Epo SubMs Rud UrbäSurb S. Cheoropadion bright SubXr K. Kn Med Epo SubMs Rud UrbäSurb S. Cheoropadion bright SubXr K. Kn Med Epo SubM	Sinapis alba L.	Ar	MedIT	Epo	Ms	Seg, Rud	Surb	R
Siembrann autonnam L. Kn Kn Gar & Epo Ms Rud Uhrkösurb S Siembrann autonamphan (Maray) Rah Kn Kn Kn Fep SubMr Rud Uhrkösurb S Siembrann autonamphan (Maray) Rah Kn Kn Kn Fep SubMr Rud Uhrkösurb S Siembrann autonamphan (Maray) Rah Kn Kn Kn Fep SubMr Rud Uhrkösurb S Casablanizer Canablace Kn Kn Kn Kn Kn Kn Kn Kn Kn Hell SubMr Fe Uhrkösurb S Canablace Kn Kn Kn Kn Kn Kn Kn Hell SubMr Fe Uhrkösurb S Canablace Kn	Sinapis arvensis L.	Ar	MedAtlEur	Epo	SubMs	Seg, Rud	Surb	S
Signatura localit L Kn Med & As Epo SubXr Rud Urh&Surb S Signatura polynorphum (Murray) Roth Kn TT Epo SubXr Rud Urh&Surb C Signatura polynorphum (Murray) Roth Kn TT Epo SubXr Rud Urh&Surb C Casabininece	Sisymbrium altissimum L.	Kn	SEur & As	Epo	Ms	Rud	Urb&Surb	С
Sizyabrana opticanale (L.) Scop., Ar Med Epo SubMs Rud Uth&Sunb C. Sizyabrana opticanale A. Scophara optical structures and the structure of	Sisymbrium loeselii L.	Kn	Med & As	Epo	SubXr	Rud	Urb&Surb	S
Signsbring polymorphan (Murray Roth Kn Kn Kn T Epp SubXr Rud Urb&Surb S CressPhilacee C. SubVs Rud, Urb&Surb S CressPhilacee C. SubVs Rud, Urb&Surb S Consobis sativa L. Kn NAm CC SubVs Rud, Epp SubVs Rud, Urb&Surb S Consobis sativa L. Kn SA Sep SubVs Rud, Fr Urb&Surb S Consobis sativa L. Kn SA Sep SubVs Rud, Fr Urb&Surb S Consobis sativa L. Kn SA Sep SubVs F Urb&Surb R Carrong Subverse C. SubVs Rud, Fr Urb&Surb R Carrong Subverse Sector SubVs S Rud, Fr Urb&Surb S S Sep SubVs Rud, Fr Urb&Surb S S Sep SubVs F Urb&Surb R Carrong Subverse Sector SubVs S Rud, Fr Urb&Surb S S Sep SubVs Rud, Clair S SubVs S Rud, Urb&Surb S S Sep SubVs Rud, Clair S SubVs S Rud, Urb&Surb S S Sep SubVs Rud, Clair S SubVs Rud, Urb&Surb S S Sep SubVs Rud, Urb&Surb S S Chengogulame SubVs Rud, Urb&Surb S S Chengogulame SubVs Rud, I The SubVs Rud, Urb&Surb S S Chengogu	Sisymbrium officinale (L.) Scop.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	С
Thiosy any set 1. Constraints of the set of	Sisymbrium polymorphum (Murray) Roth	Kn	IT	Eph	SubXr	Rud	Urb	R
Caesimplineares Caesimplineares Canabis rule cambis rule caesimplineares Canabis carles can be can b	Thlaspi arvense L.	Ar	IT	Epo	Ms	Rud	Urb&Surb	S
Gledisal riscandios L.KnNamColSubMsFUrb&SurbRCannabises ruderedis Janisch.KnMedEpoSubMsRad, FmUrb&SurbSCannabis struderedis Janisch.KnMedEpoSubMsRad, FmUrb&SurbSCargophyllaceacKnMedEphSubXrFSurbSCargophyllaceacKnKaCEurSubMsSegSurbRAgrostemma sithage L.KnMedEpoSubMsRudUrb&SurbSChengophalecacKnMedEpoSubMsRudUrb&SurbSChengophalecacArMedEpoSubMsRudUrb&SurbSChengophalecacArMedEpoSubMsRudUrb&SurbSArrifice rossinationa Boucher ex DCArMedEpoSubMsRudUrb&SurbSChengophalecacKnMedEpoSubMsRudUrb&SurbSChengophalecacKnMedEpoSubMsRudUrb&SurbSChengophaler Boucher ex DCArMedEpoSubMsRudUrb&SurbSChengophaler Boucher and L.KnMedEpoSubMsRudUrb&SurbSChengophaler Boucher and L.KnMedEpoSubMsRudUrb&SurbSChengophaler Boucher and L.KnMedEpoSubMsRudUrb&SurbS <tr< td=""><td>Caesalpiniaceae</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	Caesalpiniaceae							
Canabis cardinalis Janisch. Kn Med Epp SubMs Rud, Fm Urb&Surb S Canabis sativa L. Kn Med Epp SubMs Rud, Fm Urb&Surb C Caprificiance caprifoliane L. Kn Med Epp SubMs F F Urb&Surb S Lonicera tatarica L. Kn Med Epp SubMs Seg Surb R Garyonphilecae A r a Epp SubMs Seg Surb R Source and the submatch	<i>Gleditsia triacanthos</i> L.	Kn	NAm	Col	SubMs	F	Urb&Surb	R
Canadabis raderalis Janisch.KnMedEpoSubMsRud,UrbASsurbSCaprofioliaceaeKnMedEphSubXrFUrbASsurbSLonicer a tataricaKnMedEphSubXrFUrbASsurbSCaryophilaceaeKnKnMedEphSubXrFSurbRAgrosternau githago L.KnMedEpoSubMsRudUrbASsurbSChenapodataria officinalis L.KnMedEpoMsRudUrbASsurbSScheanthas atomaus L.ArMedEpoSubMsRudUrbASsurbSChenapodateaeCArMedEpoSubMsRudUrbASsurbSChenapodateaeCArMedEpoSubMsRudUrbASsurbSArriplex parstrata Bucher ex DCArMedIEpoSubMsRudUrbASsurbSChenapodutan byrridan L.KnMedITEpoMsRudUrbASsurbSChenapodutan byrridan L.ArMedITEpoSubMsRudUrbASsurbSChenapodutan rabraduL.ArMedITEpoSubMsRudUrbASsurbSChenapodutan rabraduL.ArMedITEpoSubMsRudUrbASsurbSChenapodutan rabraduL.ArMedITEpoSubMsRudUrbASsurbSChenapodutan rabraduL.ArMed	Cannabaceae							
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Caprilolization in the standard set of the stark of the s	Cannabis sativa L.	Kn	SAs	Epo	SubMs	Rud, Fm	Urb&Surb	С
Lonicera caprificitum L.KnMedEphSubXrFUth⋐ KCaryophyllaceaeAraEpoSubMsSegSubAgrostemma gihogo L.AraEpoSubMsSegSubDianthus barbatus L.KnMcdEpoMsRudUth&SurbSSepenaria officinals L.KnMcdEpoSubMsRudUth&SurbSSelerambus annuse L.ArMcdEpoSubMsRudUth&SurbSSelerambus annuse L.ArMcdEpoSubMsRudUth&SurbSArripke transfersis L.KnAsEpoSubMsRudUth&SurbSArripke transfersis L.KnAsEpoMsRudUth&SurbSArripke transfersis L.KnMedITEpoSubMsRudUth&SurbSCheangodium hartin LKnMedITEpoSubMsRudUth&SurbSCheangodium hartin LArMedITEpoSubMsRudUth&SurbSCheangodium indelum polyspermum L.ArMedITEpoSubMsRudUth&SurbSCheangodium indentar (L.)KnMedColSubMrRudUth&SurbSCheangodium indentar (L.)KnMedITEpoSubMsRudUth&SurbSCheangodium indentar (L.)KnMedITEpoSubMsRudUth&SurbSCheangodium indent	Caprifoliaceae					,		
Lonicer intericeKnSibEphSubXrFSurbRAgrostemma gildago L.AraEpoSubMsRud.SurbRAgrostemma gildago L.KnCEurEphMsRud.Urb&SurbSSchearaths samana L.KnMedEpoSubMsRud.Urb&SurbSSchearaths samana L.ArMedEpoSubMsRud.Urb&SurbSSchearaths samana L.ArMedEpoSubMsRud.Urb&SurbSChenopodiaceaKnArMedEpoSubMsRud.Urb&SurbSArriptex sogranda Boucher ex DCArArMedEpoSubXrRud.Urb&SurbSArriptex sogranda Boucher ex DCArKnMedEpoSubXrRud.Urb&SurbSArriptex sogranda Boucher ex DCArKnMedEpoSubXrRud.Urb&SurbSChenopodium barys L.KnMedEpoSubMsRud.Urb&SurbSChenopodium marela L.ArMedEpoSubMsRud.Urb&SurbSChenopodium streaum RothKnKnMedColSubXrRud.Urb&SurbSChenopodium streaum RothKnKnMedColSubXrRud.Urb&SurbSChenopodium streaum RothKnKnMedEpoSubXrRud.Urb&SurbSChenopodium streaum Roth </td <td>Lonicera caprifolium L.</td> <td>Kn</td> <td>Med</td> <td>Eph</td> <td>SubXr</td> <td>F</td> <td>Urb&Surb</td> <td>S</td>	Lonicera caprifolium L.	Kn	Med	Eph	SubXr	F	Urb&Surb	S
Caryophyllaceae Agrostema gildago L Agrostema L Agrostema gildago	Lonicera tatarica L.	Kn	Sib	Eph	SubXr	F	Surb	R
Agrostoming giftago L.AraEpoSubMsSegSurbRSupontin barbates L.KnCEurEpoMsRudUth&SurbSSeparatia argensia (L) Clairy.ArMedEpoSubMsRudUth&SurbSCheunpoil argensis (L.) Clairy.ArMedEpoSubMsRudUth&SurbSCheunpoil argensis (L.) Clairy.ArMedEpoSubMsRudUth&SurbSCheunpoil argensis (L.) Clairy.ArMed TEpoMsRudUth&SurbSArriplex signitus Boxher ex DCArMed TEpoSubMsRudUth&SurbSArriplex signitus Boxher ex DCArMed TEpoSubMsRudUth&SurbSArriplex signitus Boxher ex DCArMed TEpoSubMsRudUth&SurbSCheanpoiltum hyst.KnMed TEpoSubMsRudUth&SurbSCheanpoiltum hyst.ArMed TEpoSubMsRudUth&SurbSCheanpoiltum marla L.ArMed TEpoSubMsRudUth&SurbSCheanpoiltum strictum KothKnCerrEpoMsRudUth&SurbSCheanpoiltum strictum KothKnKnMed ColSubXrRudUth&SurbSCheanpoiltum strictum KothKnKnMed TEpoSubXrRudUth&SurbSCheanpoiltum strictum Koth <t< td=""><td>Carvophyllaceae</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></t<>	Carvophyllaceae			1				
Diambus barbanis L.KnMcEphMsRudSuchSuchSeleranthus annuus L.ArMcEpoMsRudUrb&SuchSSpergula arensis (L.) Clairy.ArMcdEpoSubMsRudUrb&SuchSChenopolinceeUrb&SuchSArripke, bornenis L.KnAsEpoMsRudUrb&SuchSArripke, sugitatia Boxhe, ex DCArMcdITEpoSubMsRudUrb&SuchSArripke, sugitatia Boxh,ArTTEpoSubMsRudUrb&SuchSChenopodium horays L.KnMcdITEpoSubMsRudUrb&SuchSChenopodium hybridum L.ArMcdETEpoSubMsRudUrb&SuchSChenopodium sprindum L.ArMcdETEpoSubMsRudUrb&SuchSChenopodium spricum L.KnMcdETEpoSubMsRudUrb&SuchSChenopodium spricum L.KnMcdColSubXrRudUrb&SuchSChenopodium spricum C.KnMcdMcdColSubXrRudUrb&SuchSChenopodium spricum C.KnMcdColSubXrRudUrb&SuchSChenopodium spricum L.KnMcdColSubXrRudUrb&SuchSChenopodium spricum L.KnMcdColSubXrRudWrb&SuchS	Agrostemma githago L.	Ar	а	Epo	SubMs	Seg	Surb	R
Supponding officinalis L.KnMedEpoMsRudUth&SturbSSpergula arvensis (L.) Clairv.ArMedEpoSubMsRudUth&SturbSChemopoliaceae	Dianthus barbatus L.	Kn	CEur	Eph	Ms	Rud	Surb	R
Scherankar annuals L. Ar Med Epo SubMs Rud Urb&Surb S Chenopodianessis (L.) Claire. Arriplex hortensis (L.) Claire. Arriplex normanis (L.) Claire. Arriplex normanis (L.) Claire. Arriplex normanis (L.) Claire. Arriplex seginata Boucher ex DC Ar MedIT Epo Ms Rud Urb&Surb S Arriplex seginata Boucher ex DC Ar MedIT Epo SubXr Rud Urb&Surb S Arriplex seginata Boucher ex DC Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium hybridum L. Kn MedIT Epo SubXr Rud Urb&Surb S Chenopodium hybridum L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium hybridum L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium hybridum L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium hybridum L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Ar MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Kn CEur Epo Ms Chenopodium nurale L. Kn MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Kn MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Kn MedIT Epo SubXr Rud Urb&Surb S Chenopodium nurale L. Kn MedIT Epo SubXr Rud Urb&Surb S Corizennum hyssosificium L. Kn Med Col SubXr Rud Brase Urb&Surb S Schein songinora (L.) Schrad. Kn Med TEpo SubXr Rud, Pasm Urb&Surb S Sphacea oleracea L. Kn MedIT Epo SubXr Rud, Pasm Urb&Surb S Sphacea oleracea L. Kn MedIT Epo SubXr Rud, Pasm Urb&Surb S Sphacea oleracea L. Kn MedIT Agr SubXr Rud, Pasm Urb&Surb S Eleagenus angustifolia L. Kn MedIT Agr SubXr S Rud, Pasm Urb&Surb S Eleagenus angustifolia L. Kn MedIT Agr SubXr S Rud, Pasm Urb&Surb S Eleagenus angustifolia L. Kn MedIT Agr SubXr S Rud, Seg Surb S Eleagenus angustifolia L. Kn MedIT Agr SubXr S Rud, Seg Surb S Eleagenus angustifolia L. Kn MedIT Agr SubXs Rud, Fm Urb&Surb S Eleagenus angustifolia L. Kn Med Epo SubXr F Surb S Eleagenus angustifolia L. Kn Med Epo SubXr Mud, Ffm Urb&Surb S Eleagenus angustifolia L. Kn Med Epo SubXr Rud, Seg Surb S Eleagenus angustifolia Suc, Fm Urb&Surb S Arbanorba helioscopia L. Kn Med Epo SubXr Rud, Seg Surb S Eleagenus angustifolia Scop.	Saponaria officinalis L.	Kn	Med	Epo	Ms	Rud	Urb&Surb	S
Spergula arvensis (L.) Clairv.ArMedÉpoSubMsRudUrb&SurbSAtriplex hortensis L.KnAsEpoMsRudUrb&SurbSAtriplex hortensis L.KnAsTEpoMsRudUrb&SurbSAtriplex statiatia Borkh.ArTTEpoSubXrRudUrb&SurbSAtriplex statiatia Borkh.KnMedITEpoSubMsRudUrb&SurbSChenopodium borys L.KnMedITEpoSubMsRudUrb&SurbSChenopodium nurale L.ArMedITEpoSubMsRudUrb&SurbSChenopodium nurale L.ArMedITEpoSubMsRudUrb&SurbSChenopodium nysonfolium L.KnMedColSubXrRudUrb&SurbSChenopodium nysonfolium L.KnMedColSubXrRudUrb&SurbSCorisperrunu Nysonfolium L.KnMedITEpoSubXrRudUrb&SurbSSpinacea olerace L.KnMedITEpoSubXrRudUrb&SurbSSpinacea oleracea oleracea oleracea oleraceaKnMedITEpoSubXrRudUrb&SurbSCorispearum nu Nessonfolium 1.KnMedITEpoSubXrRudUrb&SurbSSpinacea oleraceaKnMedITEpoSubXrRudUrb&SurbSCorispearum nu Nessonfolium 1.	Scleranthus annuus L.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	S
ChemopolineaeKnAsEpoMsRudUrb&SurbSAtriplex prostrata Boucher ex DCArMedITEpoMsRudUrb&SurbSAtriplex sagitata Borkh.ArTTEpoSubXrRudUrb&SurbSAtriplex sagitata Borkh.ArTTEpoSubXrRudUrb&SurbSChenopodium botrys L.KnMedITEpoSubMsRudUrb&SurbSChenopodium murale L.ArMedEpoSubMsRudUrb&SurbSChenopodium nurale L.ArMedETEpoSubMsRudUrb&SurbSChenopodium nurale L.ArMedETEpoSubMsRudUrb&SurbSChenopodium subram L.KnMedColSubXrRudUrb&SurbSChenopodium subram L.KnMedColSubXrRudUrb&SurbSCortspernum hysopijolium L.KnMedColSubXrRudUrb&SurbSCortspernum hysopijolium L.KnMedTEpoSubXrRudPadeSurbSSpinacea of Caruel (L) Schrad,KnTTEpoSubXrRudPadeSurbSCortspernum hysopijolium L.KnMedTEpoSubXrRudPadeSurbSZopisa ciacora (L) Schrad,KnTEpoSubXrRudPadeSurbSZopisa ciacora (L) Schrad,KnMedIT <td< td=""><td>Spergula arvensis (L.) Clairy.</td><td>Ar</td><td>Med</td><td>Epo</td><td>SubMs</td><td>Rud</td><td>Urb&Surb</td><td>S</td></td<>	Spergula arvensis (L.) Clairy.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	S
Arriplex hortensis L.KnAsEpoMsRudUrb&SurbSArriplex signata Borkh.ArTTEpoSubXrRudUrb&SurbSArriplex signata Borkh.ArTTEpoSubXrRudUrb&SurbSArriplex signata Borkh.KnMedITEpoSubXrRudUrb&SurbSChenopodium borys L.KnMedITEpoSubMsRudUrb&SurbSChenopodium norsherArMedITEpoSubMsRudUrb&SurbSChenopodium norsherArMedITEpoSubMsRudUrb&SurbSChenopodium norsherKnArMedITEpoSubXrRudUrb&SurbSChenopodium strictum RothKnKnMedColSubXrRudUrb&SurbSCorispernum hysopifoliam L.KnMedColSubXrRudUrb&SurbSCorispernum hysopifoliam LKnMedColSubXrRudUrb&SurbSSpinacea oleracea L.KnMedITEpoSubRudUrb&SurbSSpinacea oleracea L.KnMedITAgrNubSegSurbSSpinacea oleracea L.KnMedITAgrSubMsF, RudSurbSSpinacea oleracea L.KnMedITAgrSubMsF, RudSurbSEnsonia alba LKnKnMedITAgrSubMsF, Rud	Chenopodiaceae			T, -				
Arriplex grostrate Boucher ex DCArArMedITÉpoMsRudUrb&SurbSAtriplex tagitata Borkh.KnMedITEpoSubXrRudUrb&SurbSAtriplex taterica L.KnMedITEpoSubMsRudUrb&SurbSChenopodium forirys L.KnMedITEpoSubMsRudUrb&SurbSChenopodium nurrele L.ArMed ETEpoSubMsRudUrb&SurbSChenopodium rubrem L.ArMed ETEpoSubMsRudUrb&SurbSChenopodium rubrem L.KnKnCEurEpoSubXrRudUrb&SurbSChenopodium rubrem L.KnKnCel SubXrRudUrb&SurbSCorispermum hystopifoliam LKnKnMedCol SubXrRudUrb&SurbSCorispermum hystopifoliam LKnMedColSubXrRudUrb&SurbSSpinacea oleracea L.KnMedITEpoSubXrRudUrb&SurbSCorispermum nystopifoliam LKnMedITEpoSubXrRudUrb&SurbSAcchia scoparia (L.) Schrad.KnMedITEpoSubXrRudUrb&SurbSPolycenaturezea LKnMedITEpoSubMrRud, FamUrb&SurbSPalopstaiceaoKnKnMedITEpoSubMrRud, FamUrb&SurbSChrispositi lobata (Michx.) Torr. & A.<	Atriplex hortensis L.	Kn	As	Epo	Ms	Rud	Urb&Surb	S
Arrplex tatarica LArArTEpoSubXrRudUtb&SurbSArriplex tatarica LKnMedITEpoSubMsRudUtb&SurbSChenopodium bybridum L.ArMedITEpoSubMsRudUtb&SurbSChenopodium nurale L.ArMedITEpoSubMsRudUtb&SurbSChenopodium nurale L.ArMedITEpoSubMsRudUtb&SurbSChenopodium nurabum L.ArunEpoSubMsRudUtb&SurbSChenopodium nurabum L.KnKnMedITEpoSubMsRudUtb&SurbSChenopodium strictum RothKnMedITEpoSubXrRudUtb&SurbSCorispermum hyssopioliam L.KnMedITEpoSubXrRud, PsamUtb&SurbSSpinacea oleracea L.KnMedITEpoSubXrRud, PsamUtb&SurbSSpinacea oleracea L.KnAsEphSubSrF, RudSurbOCueurbitaceaeCarssulaceaKnMedITAgrSubMsF, RudSurbSEchnocystis aboat (L) GrulichKnKnMedITAgrSubMsF, RudSurbSEchnocystis lobata (Michx). Torr. & A.KnMedITAgrSubMsF, RudSurbSElaegans angustifola LKnMedITAgrSubMsPsamUtb&SurbSElaegans angustifo	Atriplex prostrata Boucher ex DC	Ar	MedIT	Epo	Ms	Rud	Urb&Surb	S
Arriplex tatarica L.KnMedITEpoSubMsRudUrb&SurbSChenopodium borys L.KnMedITEpoSubMsRudUrb&SurbSChenopodium hybridum L.ArMedEpoSubMsRudUrb&SurbSChenopodium nurbel L.ArMedITEpoSubMsRudUrb&SurbSChenopodium rubrum L.ArunEpoSubMsRudUrb&SurbSChenopodium rubrum L.KnMedICColSubXrRudUrb&SurbSChenopodium rubrum L.KnMedICColSubXrRudUrb&SurbSChenopodium strictum RothKnMedITEpoSubXrRud, PsamUrb&SurbSCorispernum hysseptiolium L.KnMedITEpoSubXrRud, PsamUrb&SurbSCorispernum hysseptiolium L.KnMedITEpoSubXrRud, PsamUrb&SurbSPolycnenum arvense L.KnMedITEpoSubXrRud, PsamUrb&SurbSCrassulaceaCKnMedITAgrSubMsF, RudSurbSCrucurbitaceaCKnMedITAgrSubMsF, RudSurbSElaeagnesis aizoon (L.) GruichKnKnMedITAgrSubMsF, RudSurbSElaeagnesis aizoon (L.) GruichKnMaMaAgrMsRud, FmUrb&SurbSElaeagnesis aizoon (L.) G	Atriplex sagitatta Borkh.	Ar	IT	Epo	SubXr	Rud	Urb&Surb	S
Chenopodium batrys L.KnMedTEpoMsRudUrbSChenopodium hybridum L.ArMedETEpoSubMsRudUrb&SurbSChenopodium polyspernum L.ArMedETEpoSubMsRudUrb&SurbSChenopodium nubrum L.ArunEpoSubMsRudUrb&SurbSChenopodium rubrum L.KnCEurEpoMsRudUrb&SurbSChenopodium strictum RothKnMedTEpoSubXrRudUrb&SurbSCorispernum hyssopiolium L.KnMedTEpoSubXrRudUrb&SurbSCochia lanjifora (S. G. Gmel.) BorbasKnMedTEpoSubXrRud, PsamUrb&SurbSSpinacea oleracea L.KnMedTEpoXrRudUrb&SurbSAcobia lanjifora (S. G. Gmel.) BorbasKnNAsEpoNrRudUrb&SurbSAcobia scoparia (L.) Schrad.KnNTEpoSubXrRudUrb&SurbSAcobia scoparia (L.) Schrad.KnMedITAgrSubMsF, RudSurbOCurssilaceaeKnMedITAgrSubMsF, RudSurbSAlcopsis alcoon (L.) GrulichKnKnMedITAgrSubMsF, RudSurbSElacognaceaeElacognaceaeKnMamAgrMsRud, FmUrb&SurbSIbipolabia bioscopia L.	Atriplex tatarica L.	Kn	MedIT	Epo	SubMs	Rud	Urb&Surb	S
Chenopodium hybridum L.ArMedEpoSubMsRudUrb&SubCChenopodium murale L.ArMedETEpoSubMsRudUrb&SubSChenopodium rubrum L.KnMuUrb&SubSChenopodium rubrum L.KnCEurEpoSubXrRudUrb&SubSChenopodium rubrum L.KnMedColSubXrRudUrb&SubSCorispermum hyssopifolium L.KnMedColSubXrRudUrb&SubSKochia scoparia (L.) Schrad.KnMedColSubXrRud, PsamUrb&SubSSpinacea oleracea L.KnMedITEpoSubXrRudUrb&SubSSpinacea oleracea L.KnMedITEpoSubMsF, RudSurbOCucurbitaceaKnMedITAgSubMsF, RudSurbOCucurbitaceaKnNAmAgMsRud, FmUrb&SubSThiadianth abbia BungeKnNAmAgMsRud, FmUrb&SubSElacagnesKnMamAgMsRud, FmUrb&SubSElacagnesKnMedColSubMsRud, FmUrb&SubSElacagnesKnMamAgMsRud, FmUrb&SubSElacagnesKnMamAgMsRud, FmUrb&SubSElacagnesKnMamAgSubMsRud, FmUrb&SubS	Chenopodium botrvs L.	Kn	MedT	Epo	Ms	Rud	Urb	S
Chenopodium murale L.ArMedETEpoSubMsRudUrb&SurbSChenopodium polyspernum L.ArunEpoSubMsRudUrb&SurbSChenopodium strictum RothKnCEurCBSubXrRudUrb&SurbSChenopodium strictum RothKnMedColSubXrRudUrb&SurbSCorrispermum hyssoptifolium L.KnMedColSubXrRudUrb&SurbSKochia laniflora (S. G. Gmel.) BorbasKnMedTEpoSubXrRud, PsamUrb&SurbSKochia scoparia (L.) Schrad.KnMedTEpoSubXrRud, PsamUrb&SurbSSpiacea oleracea L.KnMedTEpoXrRudUrb&SurbSSpiacea oleracea L.KnAsEphSubMsF, RudSurbOCucurbitaceaCrassulaceaKnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Tort. & A.KnMedITAgrMsRud, FmUrb&SurbSElacagnaceaElacagnaceaElacagnaceaElacagnaceaElacagnaceaSElaphorbiaceaSEuphorbia helioscopia L.KnMedEpoSubXrFSurbSElacagnaceaArMedEoSubXrFSurbSElacagnaceaKnMedEpoSubXrSSSEuphorbia helioscopia L.KnMed <td< td=""><td>Chenopodium hybridum L.</td><td>Ar</td><td>Med</td><td>Epo</td><td>SubMs</td><td>Rud</td><td>Urb&Surb</td><td>Ĉ</td></td<>	Chenopodium hybridum L.	Ar	Med	Epo	SubMs	Rud	Urb&Surb	Ĉ
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Chenopodium rubrum L.KnCEurEpoMsRudUrb&SurbSChenopodium strictum RothKnMedColSubXrRudUrb&SurbSCorispermum hyssopifolum L.KnMedColSubXrRudUrb&SurbSKochia scoparia (L.) Schrad.KnMedTEpoSubXrRud, PsamUrb&SurbSPolycnemum arvense L.KnMedITEpoSubXrRud, PsamUrb&SurbSSpinacea oleracea L.KnMedITEpoXrRudUrb&SurbSCrassulaceaCarssulaceaEItaliaItaliaSegSurbOCucurbitaceaeEItaliaKnMedITAgrSubMsF, RudSurbSElacagnus angustifolia L.KnMedITAgrSubMsF, RudSurbSElacagnus angustifolia L.KnMedEpoSubMsFSurbSEuphorbia helioscopia L.KnMedEpoSubMsRudUrb&SurbSEuphorbia helioscopia L.KnMedEpoSubMsRudUrb & SSEuphorbia helioscopia L.KnMedEpoSubMsRudUrb & SSEuphorbia helioscopia L.ArMedEpoMsRud, F, FmUrb&SurbSCaragana arborescens Lam.KnNAmEpoMsRud, F, FmUrb&SurbSCaragana arborescens Lam.KnMed	Chenopodium polyspermum L.	Ar	un	Epo	SubMs	Rud	Urb&Surb	Š
Chenopodium strictum RothKnMedColSubXrRudUrb&SurbSCorispermum hyssoptifilum L,KnMedColSubXrRud, PamUrb&SurbSKochia lanifilora (S. G. Gmel.) BorbasKnMedTEpoSubXrRud, PamUrb&SurbSKochia lanifilora (S. G. Gmel.) BorbasKnMTEpoSubXrRud, PamUrb&SurbSPolycnemum arvense L.Schad.KnHTEpoSubXrRud, PamUrb&SurbSSpinacea oleracea L.KnMedITEpoXrRud, PamUrb&SurbSCrassulaceaKnAsEphMsSegSurbROCucurbitaceae	Chenopodium rubrum L.	Kn	CEur	Epo	Ms	Rud	Urb&Surb	S
Corispermum hyssopifolium L.KnMedColSubXrRudUrb&SurbSKochia scoprafa (L.) Schrad.KnHTEpoSubXrRud, PsamUrb&SurbSPolycnemum arvense L.KnMHTEpoXrRud, PsamUrb&SurbSSpinacea oleracea L.KnMedITEpoXrRudUrb&SurbSCrassulaceaKnAsEphSubMsF, RudUrb&SurbSCrassulaceaKnAsEphSubMsF, RudSurbOCucurbitaceaeKnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnMedITAgrSubMsF, RudSurbSElacagnaceaeElacagnaceaeElacagnaceaeElacagnaceaeElacagnaceaeElacagnaceaeElacagnaceaeArMedEpoSubMsFSurb/S SSEuphorbia helioscopia L.KnMedEpoMsRud, FmUrb&Surb/S SEuphorbia peplus L.ArMedEpoMsRud, F, FmUrb&Surb/S SEuphorbia helioscopia L.ArMedEpoMsRud, F, FmUrb&Surb/S SCaragana arborescens Lam.KnMedEpoMsRud, F, FmUrb&Surb/S SCaragana arborescens Lam.KnMedEpoSubMsRud, F, FmUrb&Surb/S SCaragana arborescens Lam.KnMedEpoSubMsRud, F, FmUrb	Chenopodium strictum Roth	Kn	Med	Col	SubXr	Rud	Urb&Surb	S
Kochia laniflora (S. G. Gmel.) BorbasKnMedTEpoSubXrRud, PsamUrb&SurbSKochia scoparia (L.) Schrad.KnITEpoSubXrRud, PsamUrb&SurbSPolycnemum arvense L.KnMedITEpoSubXrRud, PsamUrb&SurbSSpinacea oleracea L.KnMedITEpoSubMsF, RudSurbSCrassulaceaKnAsEphMsSegSurbRCrassulaceaBarlonia Jab L.KnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnMedITAgrSubMsF, RudSurbSElaeagnaceaKnNAmAgrMsRud, FmUrb&SurbSElaeagnaceaKnMedEpoSubMsFSurbSElaeagnaceaKnMedEpoSubMsPsamUrb/R_Surb/SEuphorbia helioscopia L.KnMedColSubMsRud, FmUrb&SurbSEuphorbia peplus L.ArMedColSubMsRud, F, FmUrb&SurbSLargana arborescens Lam.KnMnEpoSubMsRud, F, FmUrb&SurbSLargana broescens Lam.KnMedEpoSubMsRud, F, FmUrb&SurbSLaegnaceaKnMedEphSubMsRudSurbSLaegnaceaKnMedEphSubMsRud, GgSurb<	Corispermum hyssopifolium L.	Kn	Med	Col	SubXr	Rud	Urb&Surb	S
Kochia scoparia (L.) Schrad.KnITEpoSubXrRud, PsamUrb&SurbSPolycnemum arvense L.KnMedITEpoXrRudUrb&SurbSSpinacea oleracea L.KnAsEphMsSegSurbRCrassulaceaeKnAsEphSubMsF, RudUrb&SurbSCrassulaceaeKnMedITAgrSubMsF, RudSurbSCucurbitaceaeKnMedITAgrSubMsF, RudSurbSElacagnus algustifolia L.KnMedITAgrSubMsF, RudSurbSElacagnus angustifolia L.KnMedEpoSubXrFSurbSEuphorbia helioscopia L.KnMedEpoSubMsRud, EgSurbSEuphorbia pelus L.ArMedEpoMsRud, F, FmUrb&SurbSEuphorbia helioscopia L.ArMedEpoMsRud, F, FmUrb&SurbSEuphorbia helioscopia L.KnNAmEpoSubXrRud, F, FmUrb&SurbSLens culinaris Medik.KnMedEpoSubXrSegSurbOLupinus lutues L.KnMedEpoSubMsRud, F, FmUrb&SurbSLens culinaris Medik.KnMedEpoSubMsRud, F, FmUrb&SurbSLens culinaris Medik.KnMed <td< td=""><td>Kochia laniflora (S. G. Gmel.) Borbas</td><td>Kn</td><td>MedT</td><td>Epo</td><td>SubXr</td><td>Rud. Psam</td><td>Urb&Surb</td><td>S</td></td<>	Kochia laniflora (S. G. Gmel.) Borbas	Kn	MedT	Epo	SubXr	Rud. Psam	Urb&Surb	S
Polycnemin arvense L.KnMedlTEpoXrRudUrb&SurbSSpinacea oleracea L.KnAsEphMsSegSurbRAizopsis aizoon (L.) GrulichKnEAsEphSubMsF, RudSurbOCueurbitaceaeBrionia alba L.KnMedlTAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnNAmAgrMsRud, FmUrb&SurbSElaeagnaceaeElaeagnaceaeElaeagnaceaeElaeagnaceaeEElaeagnaceaeEEuphorbia chamoides L.KnMedEpoSubMsPsamUrb/R, Surb/SSEuphorbia helioscopia L.KnMedColSubMsRud, FmUrb & SEuphorbia helioscopia L.ArMedColSubMsRud, SegSurbSFabaceaeEuphorbia peplus L.FabaceaeFUrb & SSAmorpha fruitcosa L.KnNAmEpoMsRud, FmUrb&SurbSCaragana arborescens Lam.KnNAmEpoSubMsRud, SegSurbOLupinus polyphyliks Lindl.KnMedEpoSubMsRud, SegSurbSCaragana arborescens Lam.KnNAmEpoSubMsRud, SegUrb&SurbSCaragana arborescens Lam.KnNAmEpoSubMsRud, SegUrb&SurbSCaragana arborescens Lam.KnNAmEpoS	Kochia scoparia (L.) Schrad.	Kn	IT	Epo	SubXr	Rud, Psam	Urb&Surb	S
Spinacea oleracea L.KnAsEphMsSegSurbRCrassulaceaAlzopsis alizon (L.) GrulichKnEAsEphSubMsF, RudSurbOCucurbitaceaeBrionia alba L.KnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnNAmAgrMsRud, FmUrb&SurbSElacagnus iso lobata (Michx.) Torr. & A.KnNAmAgrMsRud, FmUrb&SurbSElacagnus angustifolia L.KnMedEpoSubMsPsamUrb/R, Surb/SEuphorbia angustifolia L.KnMedEpoSubMsPsamUrb/R, Surb/SEuphorbia rhamnoides L.KnMedEpoSubMsRudUrbSEuphorbia ceaeArMedEpoMsRud, SegSurbSEuphorbia peplus L.ArMedEpoMsRud, SegSurbSFabaceaeKnunEpoSubMsSegSurbOLupinus hueus L.KnKnMedEphSubMsRud, SegSurbOLupinus hueus L.KnKnAsEpoSubMsRud, SegSurbOLupinus hueus L.KnKnAsEpoSubMsRud, SegUrb & SMeditago sativa L.KnKnAsEpoSubMsRud, SegUrb & SMorpha fruitcosa L.	Polycnemum arvense L.	Kn	MedIT	Epo	Xr	Rud	Urb&Surb	S
CrassulaceaeIn	Spinacea oleracea L.	Kn	As	Eph	Ms	Seg	Surb	R
Aizopsis aizoon (L.) GrulichKnEAsEphSubMsF, RudSurbOCucurbitaceaeBrionia alba L.KnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnNAmAgrMsRud, FmUrb&SurbSThladiantha dubia BungeKnNAmAgrMsRud, FmUrb&SurbSElacagna angustifolia L.KnMedEpoSubMsFS urbSHippophaë rhamnoides L.KnunEpoSubMsPsamUrb/R, Surb/SEuphorbia ceaeArMedColSubMsRud, SegSurbSEuphorbia helioscopia L.ArMedEpoMsRud, SegSurbSFabaceaeGaragana arborescens Lam.KnNAmEpoMsRud, F, FmUrb&SurbSLapinus Inteus L.KnMedEphSubMsRud, F, FmUrb&SurbSLapinus polyphyllus Lindl.KnMedEphSubMsRud, F, FmSurbSMorbychis vicifolia Scop.KnSEurEpoSubMsRud, F, FmSurbSOhobyrchis vicifolia Scop.KnNAmEpoSubMsRud, F, FmSurbSOnohrychis vicifolia Scop.KnSEurEpoSubMsRud, SegUrb&SurbSOnbinia pseudoacacia L.KnNAmColSubMsRud, SegUrb&Surb <td>Crassulaceae</td> <td></td> <td></td> <td>r</td> <td></td> <td></td> <td></td> <td></td>	Crassulaceae			r				
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Brionia alba L.KnMedITAgrSubMsF, RudSurbSEchinocystis lobata (Michx.) Torr. & A.KnNAmAgrMsRud, FmUrb&SurbSThladiantha dubia BungeKnNAmAgrMsRud, FmUrb&SurbSElaeagnaceaeElaeagnaceaKnMedEpoSubMsPsamUrb/R, Surb/SEuphorbia ceaeKnMedColSubMsPsamUrb/R, Surb/SEuphorbia helioscopia L.ArMedColSubMsRudUrbSEuphorbia peplus L.ArMedEpoMsRud, F, FmUrb&SurbSFabceaeArMedEpoMsRud, F, FmUrb&SurbSCaragana arborescens Lam.KnNAmEpoSubMsRudUrbSLupinus luteus L.KnMedEphSubMsSegSurbOLupinus luteus L.KnKnMedEphSubMsRudSurbSMedicago sativa L.KnKnAsEpoSubMsRud, F, FmUrb&SurbSCaragana arborescens Lam.KnKnMedEphSubMsRud, F, FmUrb&SurbSLepinus polyphyllus Lindl.KnKnMedEphSubMsRud, F, FmSurbSMedicago sativa L.KnKnAsEpoSubMsRud, F, FmUrb&SurbSMedicago sativa L.KnKnAs <td< td=""><td>Cucurbitaceae</td><td></td><td></td><td>1</td><td></td><td>,</td><td></td><td></td></td<>	Cucurbitaceae			1		,		
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Elaeognus angustifolia L.KnMedEpoSubXrFSurbSHippophaë rhamnoides L.KnunEpoSubMsPsamUrb/R, Surb/SEuphorbiaceae </td <td>Elaeagnaceae</td> <td></td> <td></td> <td>U</td> <td></td> <td>,</td> <td></td> <td></td>	Elaeagnaceae			U		,		
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Europhorbia helioscopia L.ArMedColSubMsRudUrbSEuphorbia peplus L.ArMedEpoMsRud, SegSurbSFabaceaeAmorpha fruticosa L.KnNAmEpoMsRud, F, FmUrb&SurbSCaragana arborescens Lam.KnunEpoSubXrRud, F, FmUrb&SurbSLens culinaris Medik.KnMedEphSubMsSegSurbOLupinus luteus L.KnMedEphSubMsRudSurbSMedicago sativa L.KnAsEpoSubMsRud, F, FmUrb&SurbSObrychis vicifolia Scop.KnAsEpoSubMsRudUrb&SurbSNedicago sativa L.KnNAmColSubMsRudUrb&SurbSMedicago sativa L.KnNAmEpoSubMsRudUrb&SurbSMedicago sativa L.KnAsEpoSubMsRudUrb&SurbSObrychis vicifolia Scop.KnSelurEphSubMsRudUrb&SurbSVicia angustifolia ReichardKnMedEpoMsMudUrb&SurbSVicia angustifolia ReichardKnMedITAgrSubMsRud, Seg, M-SUrb&SurbSVicia sativa L.S. F. GreyArWedEpoSubMsRud, Seg, M-SUrb&SurbSVicia sativa L.S. F. GreyArMed<	Euphorbiaceae			1				
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FagaceaeImage: Submarked, Seg. M, Fin Orbestub CQuercus rubra L.KnNAmColSubMsFUrb&SurbS	Vicia villosa Roth	Ar	Med	Epo	SubMs	Rud. Seg M Fm	Urb&Surb	Ċ
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'umariaceae	A		D ara	Cl-M-	D 1	LLula Q Coords	
umaria officinalis L.	Ar	Med	Еро	SubMs	Rud Dud M S	Urb&Surb	
<i>umaria schleicheri</i> Soywillem.	Ar	11 Madit	Epo Enh	SubMs	Rud, M-S	Surb	
umaria valitantii Loisei.	Ar	Medill	Epn	SUDAr	Rud	Urb	
	<i>V</i> n	Mod	Eno	SubMa	Dud E	Urb & Surb	
Feranium motie L.		IT	Epo	SubMa	Rud, F	Urb & Surb	
Feranium pusitium L.	Kn	11	Epo	SubMe	Rud F	Urb&Surb	
Jinnocastanacaaa	KII	713	цро	Subivis	Kuu, I	orbæsurb	
Inprocessionaceae	Kn	SEur	Col	SubMe	Rud F	Urb&Surb	
Indrangeage	KII	5Lui	COI	Subivis	Kuu, P	orbæsurb	
Dhiladelphus coronarius I	Kn	Sih-Ca & AsMin	Col	SubMe	Rud F	Urb&Surb	
Jydronhyllaceae	IXII	Sib-Ca & Asivini	COI	Subivis	Kuu, I	orocouro	
Phacelia tanacetifolia Benth	Kn	NAm	Col	SubMe	Rud Sea	Surb	
nacena nanacenjona Denni.	IXII	1 1/2111	COI	Subivis	Rud, Seg	Suit	
uglandaceae	Kn	NAm	Col	SubMe	Rud	Urb&Surb	
uglans chereu L.	Kn		Col	SubMe	Rud	Urb&Surb	
agiuns regiu L.	KII	13	COI	Subivis	Ruu	orbæsurb	
Sallota nigra I	Δr	MedIT	Eno	SubMe	Rud	Urb&Surb	
Visholtzia ciliata (Thunh) Hyl	Kn	As	Epo	SubMe	Rud	Urb&Surb	
Zaleonsis ladanum I	Ar	Med	Epo	Me	Rud Em	Surb	
amium album I	Ar Ar	IT	Epo	Me	Rud, Fill	Urb&Surb	
amium amplexicaule I	Λ1 Δ r	11 MedIT	Epo	SubMe	Sea Rud	Surb	
amium umpressione L. amium purpureum I	AI Ar	Med	Epo	SubMe	Rud	Jirh&⊊urh	
annum purpureum L.	/11 / r	MedIT	Epo	SubMa	Rud	Urb& Surb	
Jonata catavia I	A1 A •	EMad	Epo	SubMa	Rud Em	Urb&Surb	
apeia calaria L. Jalvia verticillata I	Ar Kn	Elvicu Fur & AcMin	Epo	SubMa	Ruu, FIII Dud	Surb	
inaaaaa	NII		Еро	Subivis	Kuu	Suib	
	Vn	A +1 & CEar	Emb	SubMa	Dud	T Infa	
Inum usitatissimum L.	Kn	All & CEur	Epn	Sudivis	Rud	Urb	
(lilingen officienties)	A	IT	F	M - 11	D., 1	Count	
Ithaea officinalis L.	Ar	11	Еро	Ms,Hms	Rud D 1	Surb	
	Kn	Med	Еро	Subivis		Surb	
<i>Talva neglecta</i> Wallf.	Ar	II Designed Assil	Еро	SubMs	Rud, Fm	Urb&Surb	
<i>Taiva pusilla</i> Smith	Ar	Resistant Arch	Еро	Subivis	Kud, M	Urb&Surb	
loraceae	17		C 1	14	D 1 C	111001	
<i>lorus alba</i> L.	Kn	EAs	Col	Ms	Rud, Seg	Urb&Surb	
	17	NT A	0.1	0.114		TT 1	
raxinus pennsylvanica Marshall	Kn	NAm	Col	SubMs	Rud, F	Urb	
igustrum vulgare L.	Kn	un	Col	SubMs	Rud, F	Surb	
yringa vulgaris L.	Kn	EMed	Еро	SubXr	Rud, F, Fm	Urb&Surb	
Jnagraceae	17	274	Б		D 1	11100 1	
pilobium adenocaulon Hausskn.	Kn	NAm	Еро	Ms	Rud	Urb&Surb	
Denothera biennis L.	Kn	NAm	Agr	SubMs	Rud, M, M-S	Urb&Surb	
Denothera depressa E. Greeno	Kn	NAm	Еро	SubMs	Rud	Urb&Surb	
Denothera rubricaulis Klebahn	Kn	NAm	Agr	SubMs	Rud, M-S	Urb&Surb	
Jrobanchaceae							
<i>Phelipanche ramosa</i> (L.) Pomel	Kn	MCAs	Eph	SubMs	Rud, Seg	Surb	
Dxalidaceae							
<i>Canthoxalis stricta</i> (L.) Small	Kn	NAm	Еро	Ms	Rud, Seg	Urb&Surb	
'apaveraceae							
'apaver argemone L.	Ar	MedIT	Еро	SubXr	Rud	Urb	
'apaver dubium L.	Ar	MedIT	Еро	SubMs	Rud	Urb	
Papaver rhoeas L.	Ar	MedIT	Еро	SubMs	Rud, Seg	Urb&Surb	
				SubMa	Rud	Urb&Surb	
Papaver somniferum L.	Kn	Med	Col	Subivis	1000		
Papaver somniferum L. 'hytolaccaceae	Kn	Med	Col	Subivis	1000		
Papaver somniferum L. 'hytolaccaceae 'hytolacca americana L.	Kn Kn	Med NAm	Col Eph	SubMs	Rud	Urb	
Papaver somniferum L. 'hytolaccaceae Phytolacca americana L. Y olemoniaceae	Kn Kn	Med NAm	Col Eph	SubMs	Rud	Urb	
Papaver somniferum L. 'hytolaccaceae Phytolacca americana L. 'olemoniaceae 'hlox paniculata L.	Kn Kn Kn	Med NAm NAm	Col Eph Col	SubMs SubMs SubMs	Rud	Urb Urb	
Papaver somniferum L. 'hytolaccaceae Phytolacca americana L. 'olemoniaceae Phlox paniculata L. 'olygonaceae	Kn Kn Kn	Med NAm NAm	Col Eph Col	SubMs SubMs SubMs	Rud	Urb Urb	
Papaver somniferum L. 'hytolaccaceae Phytolacca americana L. 'olemoniaceae Phlox paniculata L. 'olygonaceae <i>'agopyrum esculentum</i> Moench	Kn Kn Kn	Med NAm NAm CAs	Col Eph Col Eph	SubMs SubMs SubMs SubMs	Rud Rud Rud, Seg	Urb Urb Surb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Pagopyrum esculentum Moench Pagopyrum tataricum (L.) Gaertn.	Kn Kn Kn Kn	Med NAm NAm CAs CAs	Col Eph Col Eph Epo	SubMs SubMs SubMs SubMs SubMs	Rud Rud Rud, Seg Rud, Seg	Urb Urb Surb Surb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Yagopyrum esculentum Moench Yagopyrum tataricum (L.) Gaertn. Yallopia convolvulus (L.) A. Löve	Kn Kn Kn Kn Ar	Med NAm NAm CAs CAs As	Col Eph Col Eph Epo Epo	SubMs SubMs SubMs SubMs SubMs SubMs	Rud Rud Rud, Seg Rud, Seg Rud, Seg	Urb Urb Surb Surb Urb&Surb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Yagopyrum esculentum Moench Yagopyrum tataricum (L.) Gaertn. Yallopia convolvulus (L.) A. Löve Yevnoutria japonica Houtt.	Kn Kn Kn Kn Ar Kn	Med NAm NAm CAs CAs As EAs	Col Eph Col Eph Epo Epo Epo	SubMs SubMs SubMs SubMs SubMs SubMs Ms	Rud Rud Rud, Seg Rud, Seg Rud, Seg Rud, Seg Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Yagopyrum esculentum Moench Yagopyrum tataricum (L.) Gaertn. Yallopia convolvulus (L.) A. Löve Yeynoutria japonica Houtt. Yevnoutria sachalinensis (F. Schmidt ex Maxim) Nakai	Kn Kn Kn Kn Ar Kn Kn	Med NAm NAm CAs CAs As EAs EAs EAs	Col Eph Col Eph Epo Epo Epo Eph	SubMs SubMs SubMs SubMs SubMs Ms Ms	Rud Rud Rud, Seg Rud, Seg Rud, Seg Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb&Surb Urb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Yagopyrum esculentum Moench Yagopyrum tataricum (L.) Gaertn. Yallopia convolvulus (L.) A. Löve Yeynoutria japonica Houtt. Yeynoutria sachalinensis (F. Schmidt ex Maxim.) Nakai Yortulacaceae	Kn Kn Kn Kn Ar Kn Kn	Med NAm NAm CAs CAs As EAs EAs EAs	Col Eph Col Epo Epo Epo Epo Eph	SubMs SubMs SubMs SubMs SubMs Ms Ms	Rud Rud Rud, Seg Rud, Seg Rud, Seg Rud Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Tagopyrum esculentum Moench Tagopyrum tataricum (L.) Gaertn. Tallopia convolvulus (L.) A. Löve Peynoutria japonica Houtt. Portulacaceae Portulacaceae Portulaca oleracea L.	Kn Kn Kn Kn Ar Kn Kn	Med NAm NAm CAs CAs As EAs EAs EAs	Col Eph Col Eph Epo Epo Epo Eph	SubMs SubMs SubMs SubMs SubMs Ms Ms SubMs	Rud Rud Rud, Seg Rud, Seg Rud, Seg Rud Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Fagopyrum esculentum Moench Fagopyrum tataricum (L.) Gaertn. Fallopia convolvulus (L.) A. Löve Peynoutria japonica Houtt. Peynoutria sachalinensis (F. Schmidt ex Maxim.) Nakai Portulacaceae Portulaceae	Kn Kn Kn Ar Kn Kn Kn	Med NAm NAm CAs CAs As EAs EAs EAs EAs	Col Eph Col Eph Epo Epo Epo Eph Epo	SubMs SubMs SubMs SubMs SubMs Ms Ms SubMs	Rud Rud Rud, Seg Rud, Seg Rud, Seg Rud Rud Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb&Surb Urb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Fagopyrum esculentum Moench Fagopyrum tataricum (L.) Gaertn. Fallopia convolvulus (L.) A. Löve Peynoutria japonica Houtt. Peynoutria sachalinensis (F. Schmidt ex Maxim.) Nakai Portulacaceae Portulaca oleracea L. Primulaceae Pagaallis anyapsis L	Kn Kn Kn Kn Ar Kn Kn Ar	Med NAm NAm CAs CAs As EAs EAs EAs IT	Col Eph Col Eph Epo Epo Epo Eph Epo	SubMs SubMs SubMs SubMs SubMs Ms SubMs SubMs	Rud Rud, Seg Rud, Seg Rud, Seg Rud, Seg Rud Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb Urb	
Papaver somniferum L. Phytolaccaceae Phytolacca americana L. Polemoniaceae Phlox paniculata L. Polygonaceae Fagopyrum esculentum Moench Fagopyrum tataricum (L.) Gaertn. Fallopia convolvulus (L.) A. Löve Peynoutria japonica Houtt. Peynoutria sachalinensis (F. Schmidt ex Maxim.) Nakai Portulacaceae Portulaca oleracea L. Pirimulaceae nagallis arvensis L.	Kn Kn Kn Ar Kn Kn Kn Ar Ar	Med NAm NAm CAs CAs As EAs EAs EAs IT MedIT	Col Eph Col Eph Epo Epo Epo Eph Epo	SubMs SubMs SubMs SubMs SubMs Ms SubMs SubMs SubMs	Rud Rud, Seg Rud, Seg Rud, Seg Rud, Seg Rud Rud Rud Rud	Urb Urb Surb Surb Urb&Surb Urb&Surb Urb&Surb Urb	

Consolida ajacis (L.) Schur	Kn	Med	Epo	SubMs	Rud, Seg	Surb	R
Consolida regalis S. F.Gray	Ar	MedIT	Epo	SubXr	Rud, Seg	Urb&Surb	S
Rosaceae			-		-		
Armeniaca vulgaris Lam.	Kn	CAs	Epo	SubMs	Rud, Seg	Surb	S
Cerasus avium (L.) Moench	Kn	EurMedI	Col	SubMs	Seg	Surb	R
Crataegus sanguinea Pall.	Kn	Eur-Sib	Epo	SubMs	F	Urb&Surb	S
Padus serotina (Ehrh.) Ag.	Kn	NAm	Epo	SubMs	F	Urb&Surb	S
Padus virginiana (L.) Roem.	Kn	NAm	Col	SubMs	F	Surb	R
Physocarpus opulifolius (L.) Maxim.	Kn	NAm	Col	SubXr	Rud, F	Urb&Surb	R
Prunus domestica L.	Kn	I & AsMin	Epo	SubMs	Rud, Seg	Urb&Surb	S
<i>Rosa rugosa</i> Thunb.	Kn	EAs	Col	SubMs	Rud, F	Urb&Surb	R
Spiraea media F. Schmidt	Kn	CAs & SAs	Col	Ms	F	Surb	R
Spiraea salicifolia L.	Kn	Sib	Col	Ms	F	Surb	R
Salicaceae							
Populus deltoides Marshall	Kn	MCAs	Epo	SubMs	Rud, F	Urb&Surb	S
Salix fragilis L.	Ar	AsMin	Agr	Ms	Rud, F	Urb&Surb	С
Scrophulariaceae							
Veronica agrestis L.	Ar	Med	Epo	SubMs	Rud, F	Surb	S
Veronica arvensis L.	Ar	MedIT	Epo	SubMs	Rud, M	Urb&Surb	С
Veronica persica Poir.	Kn	S-WAs	Epo	SubMs	Rud, F	Urb&Surb	S
Veronica polita Fries	Ar	MedIT	Epo	SubMs	Rud, M	Surb	S
Veronica triphyllos L.	Ar	As	Epo	SubMs	Rud	Urb&Surb	S
Solanaceae							
Datura stramonium L.	Kn	S-EAs	Epo	SubMs	Rud	Urb&Surb	S
Hyoscyamus niger L.	Kn	Med IT	Epo	SubMs	Rud	Urb&Surb	S
Lycium barbatum L.	Ar	EAs	Epo	SubMs	Rud, F	Urb&Surb	S
Lycopersicon esculentum Mill.	Kn	SAm	Eph	SubMs	Rud, Seg	Urb&Surb	R
Nycandra physaloides (L.) P.Gaertn.	Kn	SAm	Eph	SubMs	Rud, Seg	Urb&Surb	R
Nycotiana rustica L.	Kn	SAm	Eph	Ms	Rud, Seg	Urb&Surb	R
Physalis ixocarpa Brot. ex Hornem.	Kn	CAm	Eph	Ms	Rud, Seg	Urb&Surb	R
Physalis pubescens L.	Kn	SAm	Eph	Ms	Rud, Seg	Urb&Surb	R
Solanum nigrum L.	Ar	SEur	Epo	Ms	Rud	Urb&Surb	S
Solanum tuberosum L.	Kn	SAm	Eph	SubMs	Rud, Seg	Urb&Surb	R
Ulmaceae							
Ulmus pumila L.	Kn	EAs	Epo	SubMs	Rud, F	Urb&Surb	S
Urticaceae							
<i>Urtica cannabina</i> L.	Kn	EAs	Col	SubMs	Rud	Urb&Surb	R
<i>Urtica urens</i> L.	Ar	Med	Еро	SubMs	Rud	Urb&Surb	S
Violaceae							
Viola arvensis Murray	Ar	Med	Epo	Ms	Rud, M, F	Urb&Surb	С
Vitaceae							
Parthenocissus quinquefolia (L.) Planch.	Kn	NAm	Epo	SubMs	Rud, Fm	Urb&Surb	С
Vitis amurensis Rupr.	Kn	EAs	Col	SubMs	Rud	Urb&Surb	R

Explanations: 1 – Time of immigration, Ar – archaeophytes, Kn – kenophytes; 2 – Geographical origin, a – anthropogenic, As – Asian, AsMin – Asia Minor, AtCEur – Atlantic and Central European, Ca – Caucasian, CAm – Central American, CAs – Central Asian, CEur – Central European, CSAm – Central and South American, EAs – Eastern Asian, EM – Eastern Mediterranean, EurSib – Europeo-Siberian, I – Iranian, IMal – Indo-Malayan, IMal&Sud – Indo-Malayan and Sudanian, IT – Irano-Turanian, M – Mediterranean, MAtEur – Mediterraneo-Atlantic-European, MCAs – Mediterraneo-Central-Asian, MedIT – Mediterraneo-Irano-Turanian, MET – Mediterranean Eastern Turanian, MT – Mediterraneo-Turanian, NAm – North American, SAm – South American, SAs – South Asian, S-EAs – South-East Asian, SEur – South European, Sib – Siberian, Sib-Ca – Siberian-Caucasian, un – unknown, SWAs – South-West Asian, WM – Western Mediterranean; 3 – Degree of naturalization, Agr – agriophytes, Col – colonophytes, Eph – ephemerophytes, Epo – epoecophytes; 4 – Ecological groups in relation to water requirements, Hd – hydrophytes, Hg – hygrophytes, Ms – mesophytes, SubMs – submesophytes, SubXr – subxerophytes, Xr – xerophytes; 5 – Ecological-coenotic groups, Aq – aquatic, F – forest, Fm – forest margins, Lit – littoral, M – meadow, M-B – meadow-bog, M-S – meadow-steppe, Psam – psammophytic, Rud – ruderal, Seg – segetal, wM – wet meadow; 6 – Confinedness to the city zones, Surb – suburban zone, Urb – urban zone; 7 – Frequency of occurrence, C – common, O – occasional, R – rare, S – sporadic