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**THE ECOLOGICAL SCALES  
FOR THE SPECIES OF UKRAINIAN FLORA  
AND THEIR USE IN SYNPHYTOINDICATION**

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The amplitude scales of 3300 flora species of Ukraine are presented, reflecting species relation to 12 main climate and edaphic factors. The Tsyganov, Ramensky, Tsatsenkin, Ellenberg, Landolt, Zolyomi, Zarzycki, Frank et Klotz and other ecological scales' comparisons are illustrated. The methods of synphytoindication are presented as an approach of ecological indices assessment based on phytosociological surveys taking into account indicator species presence and their occurrence in the community. The examples of practical applications of data using ordination and gradient analysis, the principal component method, ecological mapping, assessment of ecological factors changes in space (landscapes) and time (successions) are given. It is recommended for botanists and ecologists.

Tabl. 7. Fig. 17.

## **Introduction**

Due to the immensity of the current anthropogenic impact, serious environmental changes are occurring worldwide. Plants respond to these changes accordingly; first of all they disappear in some types of habitats and appear in other. That is why ecological research of flora is a very relevant and topical task. Studies of species ecology, estimation of species' tolerance amplitude to the effects of different ecological factors, ways of adaptation, behavior and population renewal strategy, as well as the abilities to resist changes of ecological factors are closely related with problems of biodiversity conservation. Species organization and structure ensure functioning of the whole ecosystem pyramid, energy accumulation and transformation, circulation of substances, soil formation processes, existence of heterotrophic component, and evolution of ecosystems and their components. On the one hand, the modern knowledge about ecosystem organization and autotrophic component, and, on the other hand, – high sensitivity of plants as a reaction to the changes in the environment, are used for the phytoindication of ecological factors.

The concept of species' ecological tolerance is the key principle for conducting the phytoindication studies; it requires quantitative estimation of the dimension of species' ecological amplitude. Such quantitative dimension estimation needs elaboration of appropriate scales. This paper is dedicated to solving this problem.

Information as to ecological characteristics of plant species is collected intensively nowadays, and is the basis for the estimation of the influence of different ecological factors using the methods of phytoindication. Obtained quantitative indices can be processed by using special software (TURBOVEG), allowing to use achieved results for further operations based on such mathematical methods as principal components, gradient, ordination, and cluster analysis; to estimate correlation not only between plant community changes and ecological factors, but also to define the nature of this correlation, which is important for elaboration of prognosis and models etc.

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## 1. Ecological scales and their dimension

Nowadays there is a number of scales reflecting the distribution of plant species in relation to various ecological factors. The most integral scales were published in specialized monographs (Ramensky, et al., 1956; Tsatsenkin, 1967, 1970; Tsyganov, 1983; Zólyomi et al., 1966; Landolt, 1977; Zarzycki, 1984, Zarzycki et al., 2003; Ellenberg, 1979; 1991; Frank, Klotz, 1990).

The list of scales and their dimension is presented in Table 1. Factors designation: *Hd* – soil humidity; *fH* – variability of damping; *Sl* – total salt regime; *Rc* – acidity; *Nt* – nitrogen content; *Gm* – humus content; *Ae* – aeration of soil; *Tm* – thermal climate; *Om* – humidity; *Kn* – continental climate; *Cr* – cryo-climate; *Lc* – light in community; *Dg* – pasture degradation; *Ca* – carbonate content in soil.

Such diverse information has to be generalized and compared. As shown in Table 1, scales have different principles of construction apart from different dimension. This causes difficulties in scale comparison and unification, but it is an important operation.

It is very big and troublesome work, which cannot be conducted basing on mathematical calculation, but requires appropriate corrections. There was attempt to elaborate methods of such comparison (Didukh, Plyuta, 1994, Didukh et al, 2000) and the graphs, which allow converting indices of main type of scales in basis scale (Fig.1-7).

However, obtained data showed, that scales on many species did not match. The appropriate own scales were elaborated based on critique analysis. Apart from this, new scale was proposed, which reflects species' relation to carbonate content in soil.

TABLE 1. General quantitative estimation of ecological scales

Author	Ecological factor													
	<i>Hd</i>	<i>fH</i>	<i>Sl</i>	<i>Rc</i>	<i>Nt</i>	<i>Gm</i>	<i>Ae</i>	<i>Tm</i>	<i>Om</i>	<i>Kn</i>	<i>Cr</i>	<i>Lc</i>	<i>Dg</i>	<i>Ca</i>
	The scores in scale													
Ellenberg	12		3	9	9			9		9		9		
Landolt	5	4	2	5	5	5	5	5		5				
Zolyomi	11			6				7		2				
Frank and Klotz	12	2	3	9	9			9		9		9		
Zarzycki	6		3	6	5	5	5	5		5		5		
Tsyganov*	23	11	19	13	11			17	15	15	15	9		
Ramensky*	120	20	30				10						10	
Tsatsenkin*	120		30										10	
Didukh and Plyuta*	23	11	19	13	11	11	15	17	23	17	15	9		13

\*Scales reflecting the factor amplitude

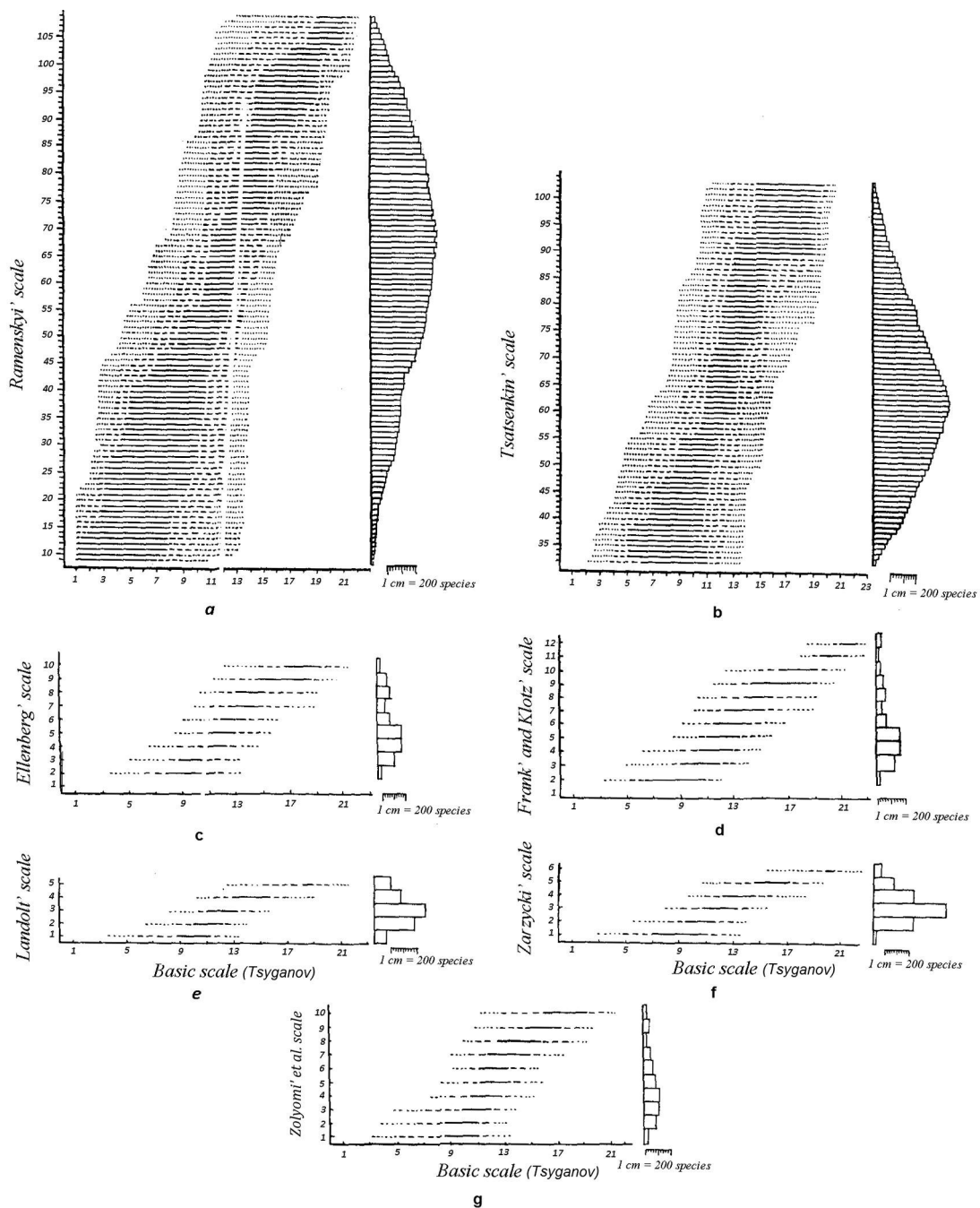


Fig. 1. The correlation of the score estimates of soil humidity (Hd) according to Ramenski (a), Tsatsenkin (b), Ellenberg (c), Frank and Klotz (d), Landolt (e), Zarzycki (f), Zolyomi et al. (g) phytoindication scales. On the left graph the edges of scale transition with 95% probability are depicted with solid lines, 75% - with dashed lines and 50% - with dotted lines. On the right graph there is a number of indicator species used in the estimation.

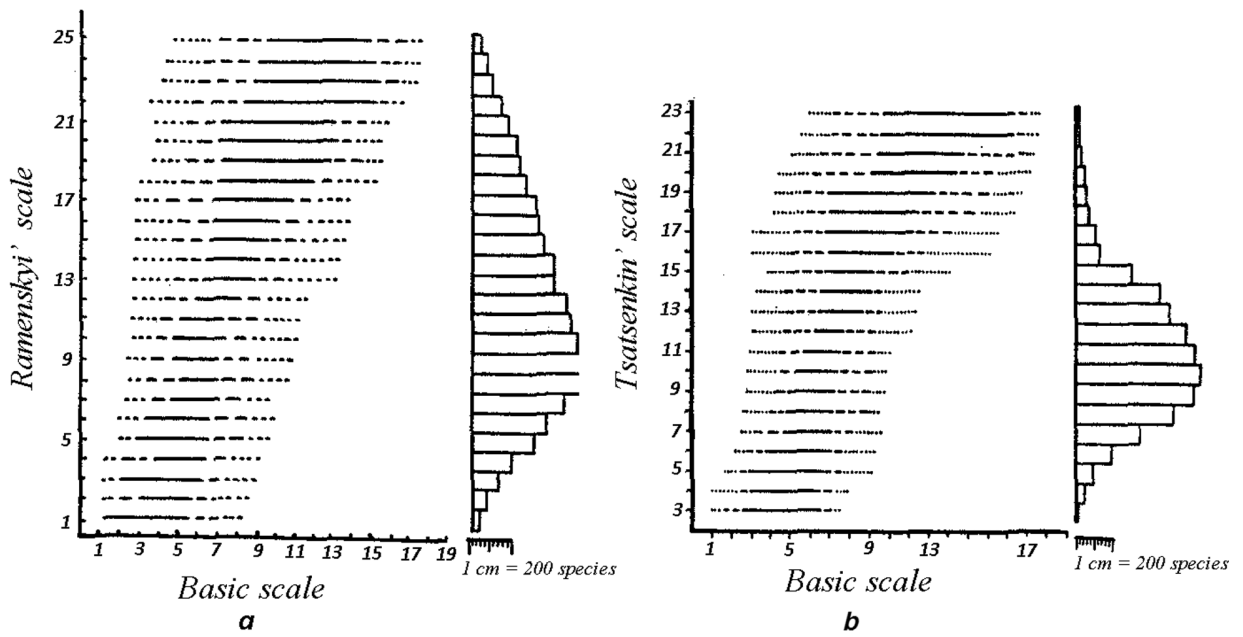


Fig. 2. The correlation of the score estimates of the general salt regime (Tr=Sl) according to the phytoindication scale of Tsyganov, Ramenski (a), Tsatsenkin (b). More explanations are given on the Fig. 1.

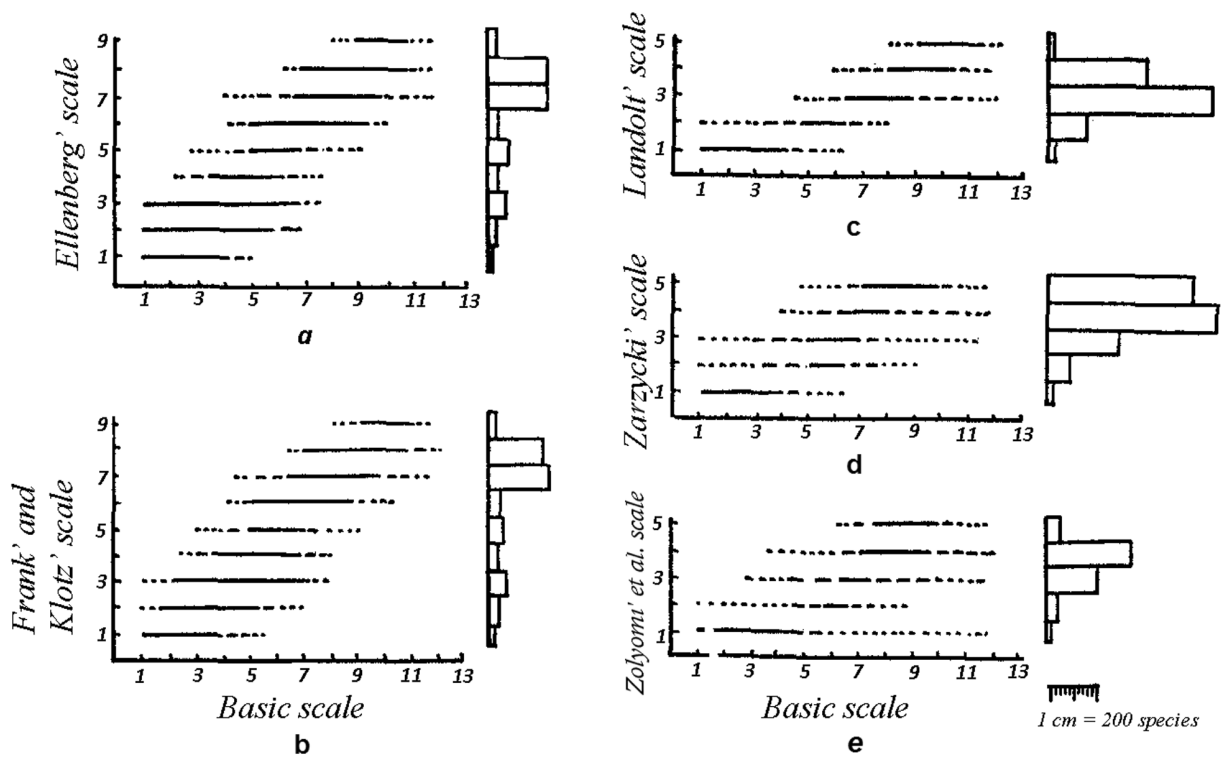


Fig. 3. The correlation of the score estimates of the soil acidity (Rc) according to the phytoindication scale of Tsyganov, Ellenberg (a), Frank and Klotz (b), Landolt (c), Zarzycki (d), Zolyomi et al. (e). More explanations are given on the Fig. 1.

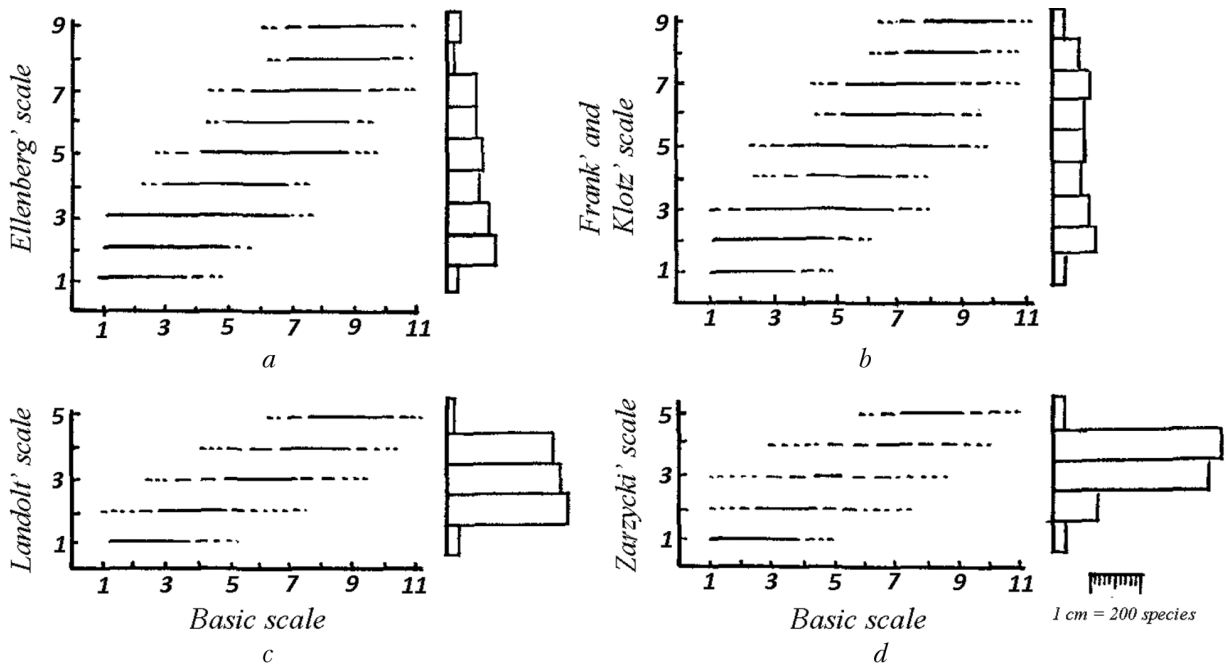


Fig. 4. The correlation of the score estimates of the nitrogen content (Nt) in the soils according to the phytoindication scale of Tsyganov and also scales of Ellenberg (a), Frank and Klotz (b), Landolt (c), Zarzycki (d). More explanations are given on the Fig. 1.

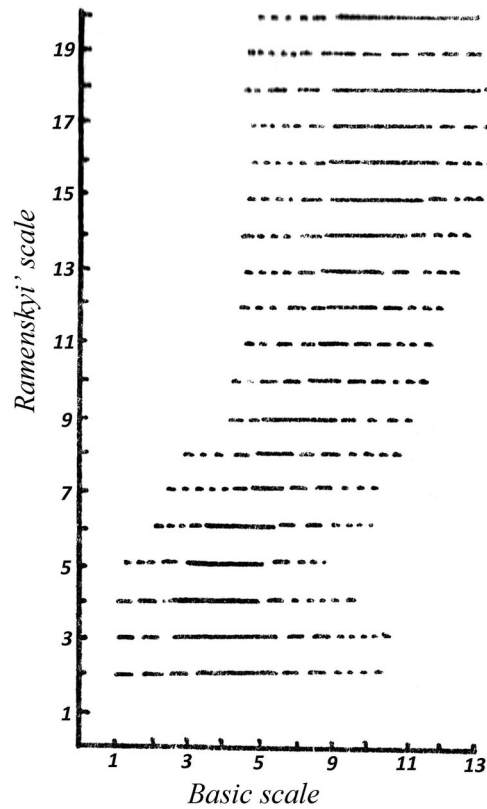


Fig. 5. The correlation of the score estimates of the variability of damping (fH) according to the phytoindication sale of Tsyganov and Ramenski. More explanations are given on the Fig. 1.

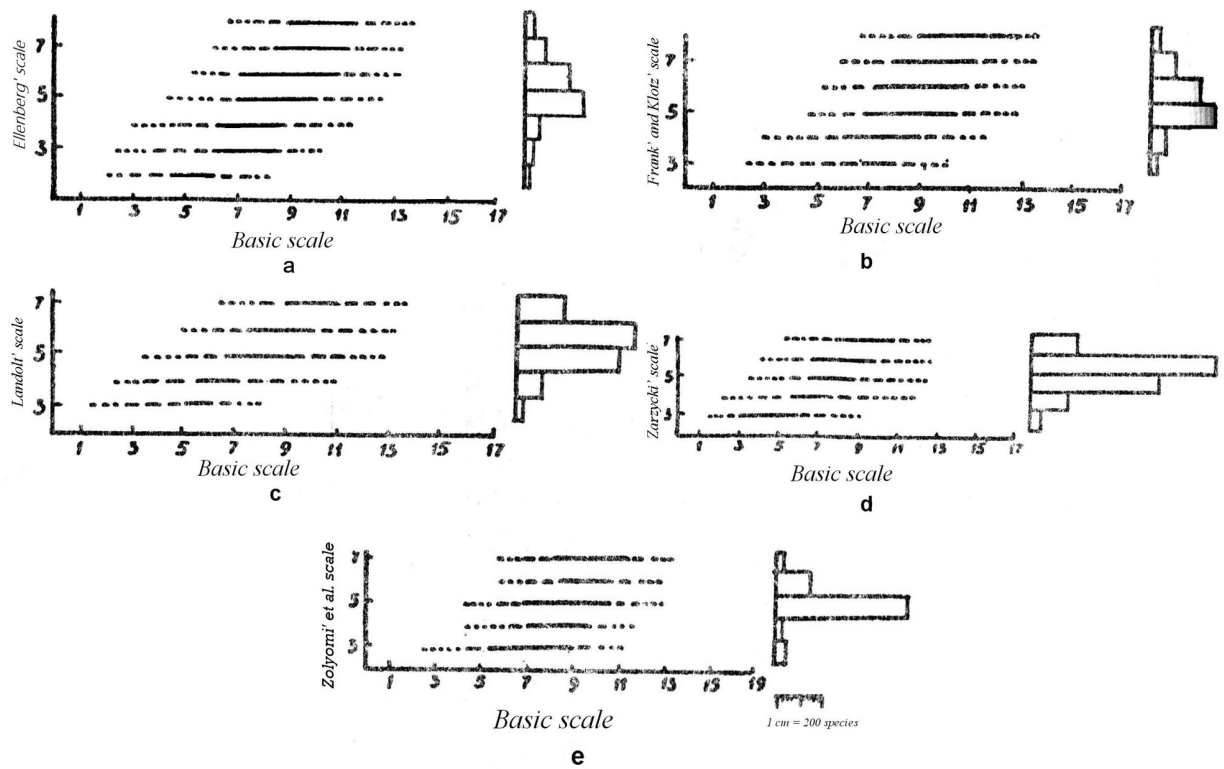


Fig. 6. The correlation of the score estimates of climate thermoregime (Tm) grade estimations according to the phytoindication scales of Tsyganov and the scales of Ellenberg (a), Frank and Klotz (b), Landolt (c), Zarzycki (d), Zólyomi et al. (e). More explanations are given on the Fig. 1.

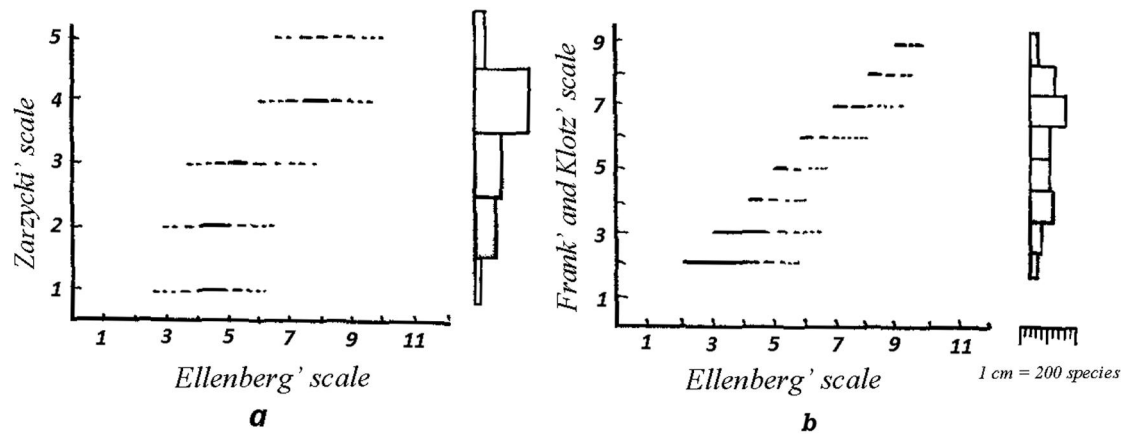


Fig. 7. The correlation of the score estimates of light (Lc) in community according to the phytoindication scales of Ellenberg and scales of Zarzycki (a), Frank and Klotz (b). Further explanations are given on the Fig. 1.



## 2. Construction methods for edaphic scales

There are no unified methods of scale construction; different authors use different approaches for this operation. Geobotanical surveys are the basis for obtaining the appropriate information and scales construction, on which vegetation classification and further ranking of syntaxa concerning the appropriate factor changes are based. Extreme syntaxa are defined, which are limiting the distribution of all existing plant communities. The next step is a choice of scale dimension and method of species or syntaxa ranking; different researchers perform it differently, however, several approaches can be distinguished: method of nicks, method of limitation and method of mean values.

1. Method of nicks, which was used by Ramensky (1938, 1956), Tsatsenkin (1967, 1970) and their followers, is based on geobotanical surveys, where lines and appropriate indices are constructed basing on dependency of abundance-cover and factor changes. Such method shows good results for coenophilic species and is basis for scale construction, for distinguishing “rapper” indices. However, if Ramensky scale is analyzed, it will be obvious that all amplitudes of species’ distribution are not always successfully defined by such way; it means that other methods are required, (in particular, method of limitation), detailed geobotanical information about habitats, where species are presented, is needed. This is time consuming and does not guarantee success. Such scales are “incomplete” on this stage, which makes it complicated for using them in further analysis.

2. Method of limitation is the search of amplitude, which limits the possibilities of particular species growth. Although this method has been mathematically less precise, we cannot do without it during the construction of ecological scales of coenophobic species. This method was used by Ramensky (1938), Tsatsenkin (1967;1970), Hundt (1966), and Tsyganov (1983).

3. Method of mean values lies in the determination of optimum (median, mode) in scale of particular factor and was used in the works of Ellenberg (1979, 1981), Landolt (1977), Frank and Klotz (1990), Zólyomi et al. (1966), Zarzycki (1984), Zarzycki et al. (2003).

Method of limitation with some corrections was used in our elaborations. It consisted in the estimation of three parameters (minimum, optimum and maximum indices). Minimum and maximum indices were considered as symmetric concerning optimum and were determined based on the limit where species cannot grow. The reverse operation was also possible, when optimum was corrected basing on minimum and maximum means. Therefore, species amplitude depended on ratio of three indices, when two of them were known, and third was determined by the ratio between previous positions. Furthermore, amplitude correction was conducted basing on other indices similar to ecological characteristics of species. Although such approach had been less precise, it allowed estimating ecological amplitude of coenophobic species, which represents about 50 % of flora.

One of the problems, which was defined by us during scale construction, was issues of scale comparison and unification. This operation consisted in the following. All species, containing some grade in scale, were fixed, and then indices of species occurrence were projected on the indices of basic amplitude scale adopted by us. The further work consisted in the statistical analysis of obtained distribution curves.

**TABLE 2. Distribution of tolerance amplitudes of species estimated by grade 8 in 10-grade scale of soil acidity of Ellenberg, in the dimension of 13-grade scale Tsyganov**

The degree of basic scale of Tsyganov	The quantity of common species, specimen	Probability
1	5	0,02
2	5	0,02
3	6	0,03
4	7	0,03
5	24	0,11
6	28	0,13
7	224	1,00
8	222	0,99
9	222	0,99
10	221	0,99
11	221	0,99
12	54	0,24
13	47	0,21

As an example we give the distribution of soil acidity indices, estimated by the grade 8 in the scale of Ellenberg (1979), concerning 13-grade scale of Tsyganov (1983) adopted by us as basic scale (Table 2).

As can be seen from such distribution, these indices (99-100% occurrence) correspond to the amplitude of 7-11 grades, because outside of them occurrence indices decrease (13-24 %). Based on such calculations, transition graphs of different scales in basic were constructed (Didukh and Plyuta, 1994), which allow conducting analysis on any of the scales. Although scale dimension have been used according to Tsyganov (1983) in most cases, it does not mean that the original Tsyganov scale was used, because indices of this and other scales for specific species can be different during such conversion. The analysis of calculation for the specific community type was conducted for the estimation of result precision, presented in chapter 4.

### 3. The estimation scales of basic ecological factors

Based on comparative analysis of scale and estimation of species distribution concerning ecological factor changes, we elaborated basic scales, in which amplitude characteristics of species are reflected. These characteristics have to be examined, specified and elaborated based on field and experimental data.

Twelve factors are operated in our research, among which some were used by the researchers traditionally (humidity, acidity, and nitrogen content in soil), others (carbonate content in soil and plant concerning them) were elaborated firstly.

#### 3.1. The edaphotope

**The eco-groups by the relation of plant species to soil water regime (*Hd*).** Some of the most significant and well-studied are factors characterizing soil (edaphic) conditions. Soil humidity has the leading value among them. The 23-grade Tsyganov scale of soil humidity was used as basis, but quantitative indices for particular species were revised, specified, and not coincided with indices of this author.

1. *Hyper-xerophytes* – plants adapted to very dry desert habitats with limited rain drenching of soil

layer where plant roots penetrate ( $W_{np} = 15-25$  mm). The habitats of such type are not represented in Ukraine.

3. *Per-xerophytes* – plants adapted to very dry semi-desert habitats with limited rain drenching of soil layer where plant roots penetrate ( $W_{np} = 25-35$  mm).

5. *Xerophytes* – plants adapted to very dry steppe habitats with very small rain and melted water drenching of soil layer where plant roots penetrate ( $W_{np} = 35-55$  mm). These are species of the driest steppe community, rocks and outcrops.

7. *Sub-xerophytes* – plants adapted to meadow-steppe habitats with small rain and melted water drenching of soil layer where plant roots penetrate ( $W_{np} = 55-75$  mm).

9. *Sub-mesophytes* – plants adapted to rather dry forest-meadow habitats with moderate rain and melted water drenching of soil layer where plant roots penetrate ( $W_{np} = 75-100$  mm).

11. *Mesophytes* – plants adapted to fresh forest-meadow habitats with total rain and melted water drenching of soil layer where plant roots penetrate ( $W_{np} = 100-150$  mm).

13. *Hydro-mesophytes* – plants adapted to damp forest-meadow habitats with temporary excessive wetting of soil layer where plant roots penetrate ( $W_{np} = 150-180$  mm).

15. *Hydrophytes* – plants adapted to grey soil forest-meadow habitats with constant capillary wetting of soil layer where plant roots penetrate ( $W_{np} = 180-250$  mm).

17. *Per-hydrophytes* – plants adapted to wet bog-forest-meadow habitats with maximum capillary wetting of soil layer where plant roots penetrate ( $W_{np} = 250-330$  mm).

19. *Sub-hydrophytes* – plants adapted to wet bog habitats and highlands of subalpine zone ( $W_{np} = 330-360$  mm).

21. *Hydrophytes* – plants adapted to coastal-water and water habitats with constant flooding of soil layer where plant roots penetrate ( $W_{np} > 360$  mm), but are hardy to temporary drying of soil.

23. *Hyper-hydrophytes* – plants adapted to water habitats with constant flooding regime.

**The eco-groups by the relation of plant species to variability of damping (*fH*).** The variability of damping is very important factor of species distribution, which grow in flood plains, because this factor influences the period and duration of

plant vegetation, soil aeration, soil enrichment with nutrients etc (Ramensky, 1938; Tsyganov, 1983).  $\omega$  – coefficient of variability of damping, which vary from 0 to 0,5.

1. *Hyper-hydrocontrastophobes* – plants adapted to water and boggy habitats with constant flooding, maximum capillary wetting of soil layer where plant roots penetrate, or habitats with groundwater supply, or constant dry desert habitats (coefficient of variability of damping ( $\omega=0,01-0,05$ )).

3. *Hydrocontrastophobes* – plants adapted to damp forest-meadow habitats with equable stable wetting by ground and partly surface waters of soil layer where plant roots penetrate, or dry habitats which are sporadic drenched by precipitations ( $\omega=0,06-0,15$ ).

5. *Hemi-hydrocontrastophobes* – plants adapted to fresh forest-meadow habitats with moderately irregular wetting of soil layer fully drenched by precipitations and melted waters ( $\omega=0,16-0,24$ ).

7. *Hemi-hydrocontrastophiles* – plants adapted to dry forest-meadow and meadow-steppe habitats with irregular wetting of soil layer where plant roots penetrate, or with soil small drenched by precipitations and melted waters ( $\omega=0,25-0,34$ ).

9. *Hydrocontrastophiles* – plants adapted to dry steppe or damp habitats which are formed in conditions of extremely irregular wetting of soil layer small drenched by precipitations and melted waters ( $\omega=0,35-0,40$ ).

11. *Hyper-hydrocontrastophiles* – plants adapted to extremely dry semi-desert and desert habitats, saline, or river swells with clearly irregular wetting of soil layer slightly drenched by precipitations, and habitats with long wetting ( $\omega=0,41-0,49$ ).

**The eco-groups by relation of plant species to soil aeration (Ae).** Aeration is a factor influencing the chemical processes (oxidation), defines the character of soil formation, composition and development of microflora and limits the distribution of many plant species. Two factors cause aeration – soil irrigation and mechanical composition of soil, since water can be intermixed and supplies oxygen better in sand soil, than in clayey and silty soil, in which anaerobic conditions are formed.

The 15 groups are distinguished by relation of plant species to aeration of soil.

1. *Hyper-aerophiles* – plants, root system of which is located in air (aeration porosity (Ae=95-100% of total porosity). This group includes

epiphytes, which grow in tropical zone, but they are cultivated in greenhouse in our zone.

3. *Aerophiles* – plants adapted to very aerated habitats with gaps; plants, which grow in conditions with limited drenching by precipitations of soil layer where plant roots penetrate (Ae=80-95%).

5. *Sub-aerophiles* – plants adapted to highly aerated habitats with inclusions of broken stones and sand; and also plants which grow in conditions of slight and moderate drenching of soil layer by the precipitations and melted waters (Ae=50-80%).

7. *Hemi-aerophobes* – plants which grow on moderately aerated soils, dry clayey or damp sandy with full drenching of soil layer by precipitations and melted waters; or temporary drenching of soil layer by grounded waters (Ae=35-50 %).

9. *Sub-aerophobes* – plants which grow on weakly aerated damp clayey soils with almost constant capillary wetting of soil layer where plant roots penetrate (Ae=20-35%).

11. *Aerophobes* – plants which growth on damp gleyed soil with maximum capillary wetting of soil layer where plant roots penetrate (Ae=3-20%).

13. *Mega-aerophobes* – plants adapted to coastal habitats on bog shoalwaters, and plants of flowing streams with minimum aeration (Ae=1-3%).

15. *Hyper-aerophobes* – plants of stagnant basin with silty bottom and anaerobic oxidation (Ae<1%).

**The eco-groups by the relation of plant species to soil acidity (Rc).** The acid regime depends on the chemical composition of bedrocks, soils, type of vegetation. The chemical composition of soil, acidity in particular, promotes special reactions taking place in soil. This is one of the allopathic mechanisms of particular species' selection: elimination of some species and contribution to the development of others.

The soil acidity varies from very acidic (pH=3,0-3,5) – sphagnum bogs, to very alkaline – solonetz and saline (pH=10-11). This amplitude is divided into 15 classes, expressed in grades.

1. *Hyper-acidophiles* – plants which growth on very acid (pH<3,7) soils of oligotrophic bogs, alpine meadows.

3. *Per-acidophiles* – plants which growth on quite acid (pH=3,7-4,5) soils of alpine and subalpine meadows, poor pine forests, mesotrophic bogs.

5. *Acidophiles* – plants which grow on acid (pH=4,5-5,5) typical sod-podzolic and brown forest soils of pine and spruce forest, meadows.

7. *Sub-acidophiles* – plants which grow on faintly acid (pH=5,5-6,5) sod-podzolic and gray forest soil of acidophilic coppice, meadow marsh habitats.

9. *Neutrophiles* – plants which grow on acidulous and neutral (pH=6,5-7,1) soils of basophilic coppice on grey forest soils, leached, usual and typical chernozems (black earth) of meadow steppe and steppe meadow.

11. *Sub-basophiles* – plants which grow on alkaline soils (pH = 7,2-7,7) of southern chernozems, lime and chalky outcrops.

13. *Basophiles* – plants which grow on alkaline soils (pH = 7,7-8,2) solonetz, saline, salt seaside tongues of land.

15. *Hyper-basophiles* – plants which grow on very alkaline soils (pH>8,2), solonetz, saline, salt seaside tongues of land.

**The eco-groups by the relation of plant species to total salt regime (SI).** Although the level of salinization is associated with soil acidity, it has some particularity, since, apart from total quantity of salt, composition of salt is very important. The salt regime is very significant characteristic of soil, as it influences different processes of soil formation and defines plant adaptation. Plants sensitively react on salt content and peculiarity, which are used in such approach of phytoindication as haloindication. The 19-grade Tsyganov (1983) scale was used as a basis. This scale reflects the degree of saturation by ions  $\text{HCO}_3^-$ ,  $\text{SO}_4^-$ ,  $\text{Cl}^-$ ; we elaborated database based on this.

As salt regime is defined quantitatively by different salt (carbonates, sulfates, chlorides), dependence between grade indices and salt quantity was not defined, although some tendency of changes of salt qualitative content and total quantity was observed, which was reflected in our scales.

1. *Oligotrophes* – soils very poor in salt content (30-80 mg/l),  $\text{HCO}_3^-$ ,  $\text{SO}_4^-$ ,  $\text{Cl}^-$  are absent, present –  $\text{H}^+$ ,  $\text{Al}^{+++}$ ,  $\text{Fe}^{++}$ . It is plants of poor bogs, woodland sand dunes with good flushing regime, alpine and subalpine broken stone substrates.

3. *Semi-oligotrophes* – poor on salt, very leached sod-podzolic, brown forest soils, which are constantly leaching (75-100 mg/l),  $\text{HCO}_3^-$ ,  $\text{SO}_4^-$ ,  $\text{Cl}^-$  are absent, present –  $\text{H}^+$ ,  $\text{Al}^{+++}$ ,  $\text{Fe}^{++}$ .

5. *Mesotrophes* – soils not reach on salt (95-150 mg/l),  $\text{HCO}_3^-$  are present,  $\text{SO}_4^-$ ,  $\text{Cl}^-$  – absent. It is more reach sod-podzolic, grey forest, meadow marsh soils with leaching regime.

7. *Semi-eutrophes* – soils enriched with salt (150-200 mg/l) with a content of  $\text{HCO}_3^-$  4-16 mg/100g of soil, and trace of  $\text{SO}_4^-$  and  $\text{Cl}^-$  in some types. It is dark-grey forest soils, podzolic chernozems, Crimean forest brown soils on carbonates, where leaching and podzolic processes take place because of significant precipitation quantity.

9. *Eutrophes* – reach chernozems well enriched in salt, developed sod-podzolic soils with absent sign of salting ( $\text{HCO}_3^-$  30-50 mg/100g of soil,  $\text{SO}_4^-$  and  $\text{Cl}^-$  – traces). This type of soil is formed on loess bedrock, deposits of dolomites, limestone and chalk, which are reached on carbonates.

11. *Sub-glycotrophes* – salt excess of  $\text{HCO}_3^-$ , which causes to carbonate type of salting (0,25%),  $\text{SO}_4^-$  – 0,01-0,05%,  $\text{Cl}^-$  – 0,01-0,03%. It is typical chernozems, outcrops of chalk deposits, limestone, products of their leaching, which are not enough leached by water due to the small precipitations quantity (< 500 mm) and high ability to evaporate (evaporation coefficient < 1).

13. *Glycotrophes* – presence of sulfate salt  $\text{SO}_4^-$  – 0,1-0,3%,  $\text{Cl}^-$  – 0,05-0,1%; traces of coda salting.

15. *Meso-halotrophes* (halophites) – on soil with sulfate soda salting ( $\text{SO}_4^-$  – 0,5%,  $\text{Cl}^-$  to 0,3%), that is solonetz.

17. *Halotrophes* (halophites) – soils of chloride salting ( $\text{Cl}^-$  – to 2%): seaside sand tongues of land, rising grounds, which contributes to partial leaching of salts, desalinization.

19. *Super-halotrophes* (*super-halophites*) – on soils with excessive chloride salting > 2%  $\text{Cl}^-$ , where typical saline are formed.

**The eco-groups by the relation of plant species to carbonate content in soil (Ca).** One of the most important compounds, on which plants react sensitively, is the character of carbonate substrates, which are manifested in their content in soil as well as in a character of carbonate bedrocks deposits, which are in surface and outcrops. The lasts form specific edaphic conditions, which cause situation, when plants, which grow on them, are different from plants which grow on soil, and that is why very often these plants are considered as separate species, subspecies, forms etc. This are reflected in their name “calcareus”, “cretaceous”, and in derivative words “cretophilus”, “creticola” etc.

The 13-grade scale of plant species' relation to carbonate content in soil (Ca), which is presented in

soil by dolomites, limestone and chalk, was firstly elaborated by us (Didukh et al., 2000).

1. *Hyper-carbonatophobes* – plants which grow on soil without the traces of  $\text{HCO}_3^-$ . These are the plants of oligo- and mesotrophic bogs, which have not a ground, but surface nourishment by water.

3. *Carbonatophobes* – plants which do not grow on carbonate soils ( $\text{CaO}$ ,  $\text{MgO}$  = 0,05%), but on soils, formed on acid silicate bedrocks (sands, granites, gneiss etc).

5. *Hemi-carbonatophobes* – plants avoiding carbonate substrates ( $\text{CaO}$ ,  $\text{MgO}$  = 0,5%), that grow on podzolic, meadow, gley soils, where traces of carbonates are present. As a rule, they are indicated by species, which do not grow on carbonate bedrocks, but on region of carbonate occurrence and they avoid outcrops of acid bedrocks.

7. *Acarbonatophiles* – plants of neutral habitats sustained to small carbonate content in soil ( $\text{CaO}$ ,  $\text{MgO}$  = 0,5-1,5%), which are not raised in upper layers due to the flushing regime. It is, from one side, grey forest soils formed on loess bedrocks, but are characterized by podzolic processes. From the other side, it is solonetz, saline, where carbonate base is replaced by sulfates and chlorides.

9. *Hemi-carbonatophiles* – grow on chernozems, enough enriched with carbonates ( $\text{CaO}$ ,  $\text{MgO}$  = 1,5-5%), which are washed and can occur in forms of inclusions.

11. *Carbonatophiles (optional carbonatophiles)* – plants which prefer growing on carbonate soils (rendzinas), where  $\text{CaO}$ ,  $\text{MgO}$  = 5-10%.

13. *Hyper-carbonatophiles (obligatory carbonatophiles)* – plants which occur exceptionally on carbonate deposits (chalks, limestone) in conditions of soil absence ( $\text{CaO}$ ,  $\text{MgO}$  > 10%). They are characterized by the adaptive properties (they have a thick and large pubescence, cuticle, well-developed root system etc).

**The eco-groups by the relation of plant species to nitrogen content in soil ( $N_t$ ).** One of the most significant components of soil trophicity is content of nitrogen content in soil. However, complication of its estimation is that nitrogen in soil is present in different forms of organic and mineral compounds, some of them are easily or hardly dissipated or are not soluble at all. It is accessible or inaccessible for assimilation by plants; forms inaccessible for assimilation can be decomposed with different rate, which depends not only on chemical and

physical composition of soil, but also depends on the character of vegetation, microorganisms activity, which correlates with climate conditions, in particular with seasonal prevalence. Specific plant secretion through the root system actively influences these processes, which provide plants with this element. At the same time, the presence of accessible forms of nitrogen limits the growth of many species.

To be based on this, the great attention is paid to phytoindication scales of nitrogen content estimation. However, some authors emphasize phytoindication of accessible forms of nitrogen (Ellenberg, 1979, 1991; Tsyganov, 1983), other authors (Landolt, 1977; Zarzycki, 1984 Zarzycki et al., 2003) – humus. Despite the difference between them, indices, have been obtained on practice, strongly correlate with each other, therefore we accepted Tsyganov (1983) scale as a basis. In accordance with this scale all species are divided into 11 groups.

1. *Anitrophiles* – plants which grow on very poor non-nitrogen dystrophic soils, oligotrophic bogs, outcrops, deposits of basic bedrock, sand alluvium.

3. *Sub-anitrophiles* – plants which grow on poor on mineral nitrogen oligotrophic soils, where organic residue are decomposed very quickly, their products are washed and content of mineral nitrogen is 0,05-0,2% or 5-20 mg per 100 g of soil.

5. *Hemi-nitrophiles* – plants which grow on soils moderately provided with mineral nitrogen (0,2-0,3%).

7. *Nitrophiles* – plants which grow on soils enough provided with mineral nitrogen (0,3-0,4%).

9. *Eunitrophiles* – plants which grow on soils well provided with mineral nitrogen (0,4-0,5%).

11. *Hyper-nitrophiles* – plants which grow on soils excessively provided with mineral nitrogen (more than 0,5%).

### 3.2. The climatope

The climate is of great importance in species distribution on the planet. It is a complex factor, which can be divided into some components. The four phytoindication scales were elaborated by us for such factors: 1) the radiation balance (thermal climate,  $T_m$ ); 2) the aridity or humidity (ombroregime,  $Om$ ); 3) the continentality

(continental climate,  $Kn$ ); 4) the rigours of the winter (cryo-climate,  $Cr$ ). These scales characterize the main climatic factors (warm and humidity) of plant species activity by land.

The methods of scale elaboration for climatic group are different from those for edaphic factors. It consists in comparison of species' geographical range and fields (isochors) of specific climatic factors' indices, estimation of maximum and minimum values of specific factors, which characterize tolerance range. The species chorology of Ukrainian natural flora was analyzed by all available sources (atlases, "floras" monographs and articles). The publications with maps were especially useful, in particular the atlases of Meusel et al. (1965, 1978, 1992), *Exkursionflora...*, 2002). Some climatic fields ( $Tm$ ,  $Cr$ ) were lined in accordance with data of geographical atlases; others ( $Kn$ ,  $Om$ ) are unique and were elaborated by P.G. Plyuta (Didukh et al., 2000) based on calculation by data for more than 2 thousands points, which represent all natural land regions.

**The thermal climate (thermoregime,  $Tm$ )** is estimated basing on radiation balance – the quantity of heat which falls on 1 cm<sup>2</sup> during a year. This value varies from several to 100 kcal per cm<sup>2</sup>. Based on indices' variation the nine groups are distinguished: *hekistotherms* < 10 kcal/cm<sup>2</sup>, *sub-hekistotherms* – 10-20, *microtherms* – 20-30, *sub-microtherms* – 30-40, *sub-mesotherms* – 40-50, *mesotherms* – 50-60, *macrotherms* – 60-70, *sub-megatherms* – 70-80 and *megatherms* – > 80-100 kcal/cm<sup>2</sup>. The thermoragime scale has 17 grades. All possible values of radiation balance on Earth are divided into equal intervals; point value of one grade is 5 kcal-cm<sup>2</sup>-year<sup>-1</sup> (209,34 MJ-m<sup>2</sup>-year<sup>-1</sup>) (table 3).

The highest indices of thermoclimate are typical on the territory of Ukraine for Western Coast of Crimea (63 kcal/cm<sup>2</sup>), and minimum – for northeastern plain part of Ukraine (42 kcal/cm<sup>2</sup>). The radiation balance is decreasing with altitude due to cloudiness rise in summer and albedo in winter; and it is 15 kcal/cm<sup>2</sup> at altitude of 1900 m, which is 3th grade (sub-hekistotherms).

**The continentality of climate ( $Kn$ )** – is totality of properties, determined by the influence of big area of sea and land atmospheric processes and climate formation. These influences are intensive and versatile, and have opposite trends by some factors.

**TABLE 3. The scale of radiation balance (thermoregime,  $Tm$ )**

Grade	Ecogroups	Absolute value	
		kcal-cm <sup>2</sup> -year <sup>-1</sup>	MJ m <sup>2</sup> -year <sup>-1</sup>
1	Hekistotherms	5	209
2		10	419
3	Sub-hekistotherms	15	628
4		20	837
5	Microtherms	25	1047
6		30	1256
7	Sub-microtherms	35	1465
8		40	1675
9	Sub-mesotherms	45	1884
10		50	2093
11	Mesotherms	55	2303
12		60	2512
13	Macrotherms	65	2721
14		70	2931
15	Sub-megatherms	75	3140
16		80	3349
17	Megatherms	85	3559

The disposition of big area of land and oceans influences the formation of centers of atmospheric pressure and global atmospheric circulation. The oceans are main providers of humidity in atmosphere. The air humidity is higher in oceanic regions, than in continental. In the oceanic regions there are more cloudy days (especially in summer), mists, less sunlight duration, larger amount and periodicity of precipitations, lower daily and annual amplitudes of air temperature.

Due to the difficult estimation of all interconnected complex of factors, which form continentality, unitary concept regarding this notion is absent. We use the Ivanov (1959) formula for the estimation of continental climate:

$$Kn = \frac{A_p + A_d + 0,25D_0}{0,36\phi + 14} \cdot 100\%$$

where  $A_p$  – annual amplitude of air temperature (difference between the warmest and the coldest months), °C;  $A_d$  – daily amplitude of air temperature (on the average during year), determined as

difference between average annual maximum and minimum air temperature, °C;  $D_0$  – average annual deficiency of relative air humidity, %;  $0,36\varphi$  – linear dependence of all three components of geographical latitude  $\varphi$ , degree; 14 – the sum of components of numerator on equator.

Phytoindication scale of this factor was elaborated using indices (table 4), which includes 17 grades, from extra-oceanic (to 61%) to ultra-oceanic (> 210%) climate. Ukraine is situated on the boundary between hemi-oceanic climate (120%) – Western Ukraine and Black Sea coast; and sub-continental climate (150%) – steppe zone of Black Sea region. This index is lower in the Carpathian Mountains (110%) and is sub-oceanic.

**The humidity ( $Om$ )** is one of the most important ecological factors reflecting aridity – climate humidity. This factor characterizes air humidity and is linked with precipitation quantity, flowing, evaporation and transpiration, soil humidity, level of ground waters etc (Konstantynov 1968; Methods ..., 1981). The humidity index integrates precipitation influence and thermal resources of the territory. It is determined as a difference between annual precipitation quantity and evaporation ( $E_0$ )

$$Om = W - E_0, \text{ mm.}$$

The evaporation is potential evaporation under specific climatic conditions from the surface, which has unlimited humidity reserves. There are many methods of calculation  $E_0$  (Methods ..., 1981), but we used Ivanov (1957) method:

$$E_0 = 0,018 \cdot (t + 25)^2 \cdot (100 - f), \text{ mm}$$

where  $E_0$  are calculated for each month separately, and then are added up for year;  $t$  and  $f$ , accordingly, are average month temperature (°C) and relative air humidity (%). It was proved that this formula gives good result for steppe zone and a little understated result in forest zone (Konstantynov, 1968).

The scale of humidity (table 5) includes 23 grades – from hyper-aridophytic (< - 2200 mm) to hyper-ombrophytic (> 2000 mm) climate. This index varies in Ukraine from semi-ombrophytic (1000 mm) in the Carpathians to meso-aridophytic (- 700 mm) in the Southern Coast of Crimea, that is included 35 % of scale.

**The cryo-climate ( $Cr$ )** reflects cryoregime of climate. The main meteorological elements, influencing plant hibernating, are air temperature

**TABLE 4. The scale of continental climate (contrast regime,  $Kn$ ), %**

Grade	Ecogroups	$Kn$
1	Extra-oceanic	To 61
2		61-70
3	Oceanic	71-80
4		81-90
5	Sub-oceanic	91-100
6		101-110
7	Hemi-oceanic	111-120
8		121-130
9	Hemi-continental	131-140
10		141-150
11	Sub-continental	151-160
12		161-170
13	Continental	171-180
14		181-190
15	Eucontinantal	191-200
16		201-210
17	Ultra-continental	More than 210

**TABLE 5. The scale of climate aridity-humidity (humidity,  $Om$ ), mm**

Grade	Ecogroup	$Om$
1	Hyper-aridophytes	Less than -2200
2		-2200 — -
3	Ortho-aridophytes	-2000 — -
4		-1800 — -
5	Euaridophytes	-1600 — -
6		-1400 — -
7	Semi-aridophytes	-1200 — -1000
8		-1000 — -800
9	Meso-aridophytes	-800 — -600
10		-600 — -400
11	Sub-aridophytes	-400 — -200
12		-200 — 0
13	Sub-ombrophytes	0 — 200
14		200 — 400
15	Meso-ombrophytes	400 — 600
16		600 — 800
17	Semi-ombrophytes	800 — 1000
18		1000 — 1200
19	Euombrophytes	1200 — 1400
20		1400 — 1600
21	Ortho-ombrophytes	1600 — 1800
22		1800 — 2000
23	Hyper-ombrophytes	More than 2000

and cloak of snow. The characteristic of winter extreme conditions is average temperature of the coldest month (it is mainly January, uncommonly February in Ukraine). Basing on this index, the phytoindication scale of cryo-regime was elaborated (table 6).

The scale includes 15 grades and characterizes temperature variation of the coldest months – from hyper-cryophytic climate ( $< -34$  °C) to thermophytic climate ( $> +18$  °C), that is constant high temperature in tropic zone. These indices vary in Ukraine from  $-8$  (sub-cryophytic) to  $+4$  °C (acryophytic).

**TABLE 6. The scale of cryo-climate (cryo-regime, Cr), °C**

Grade	Ecogroup	Cr
1	Hyper-cryophytes	Under -34
2		-34 — -30
3	Per-cryophytes	-30 — -26
4		-26 — -22
5	Cryophytes	-22 — -18
6		-18 — -14
7	Sub-cryophytes	-14 — -10
8		-10 — -6
9	Hemi-cryophytes	-6 — -2
10		-2 — +2
11	Acryophytes	2 — 6
12		6 — 10
13	Sub-thermophytes	10 — 14
14		14 — 18
15	Thermophytes	Above 18

**The light (Lc).** The 9-grade scale of Ellenberg (1979, 1991) was used as a basis.

1. *Ultra-scyophytes* – plants of dark coniferous forests.

3. *Scyophytes* – plants of typical foliage forests/

5. *Hemi-scyophytes* – plants of light coniferous and little-closed foliage forests.

7. *Sub-heliophytes* – plants of light forests and shrubberies, or high herbaceous communities; lower layers are in the shade.

9. *Heliophytes* – plants of open places, which are located under direct sunlight.

The amplitude scale was elaborated based on this scale. It is understandable that averages of

amplitude scale cannot be equal to 1 and 9, because during calculation ultra-scyophytes have index  $< 3$ , and heliophytes  $> 7$  grades.

#### 4. The ecological analysis of plant communities based on synphytoindication methods

It was elaborated the quantitative phytoindication scales including the characteristics of more than three thousand species in accordance with 12 factors used for the ecological assessments of specific plant communities or syntaxa. The classic phytosociological surveys are used for this purpose, reflecting the species structure of flora and the degree of species participation in the community. The quantitative indices for phytocenoses are calculated based on average grade indices of all informative species taking into account indices of their occurrence or covering.

$$\gamma = \frac{k_1x_1 + k_2x_2 + \dots k_nx_n}{k_1 + k_2 + \dots k_n}$$

Where  $x_{1\dots n}$  – the mean of species' tolerance amplitudes in accordance with scale  $k_{1\dots n}$  – the coefficients of occurring or covering are: 1 grade  $< 1\%$ ; 2 – 1-5%; 3 – 6-20%; 4 – 21-50%; 5  $> 51\%$ .  $n$  – number of informative species in the survey. The index obtained by us reflects average mean, which is convenient for further calculations. However, it is possible to calculate “amplitude” index theoretically, value of this index is determined based on amplitude overlapping of 75% informative species, allowing to reject random minimal and maximal means. Such approach needs the elaboration of the appropriate software and the comparison of obtained data.

In both cases grade indices of indicated species are used for the assessment of ecological factors, occurring in phytocenoses and characterizing its state. This is the reason why we call this method “synphytoindication”. Using of this method gives quite accurate results, when the quantity of informative indicated species is more than ten. Obtained quantitative data is used for the assessment of ecological differentiation (the degree of likeness or difference) of plant community; hence different mathematical and other methods are used.

For the assessment of data obtained by R. Tsvirko, we conducted the comparison of the results based



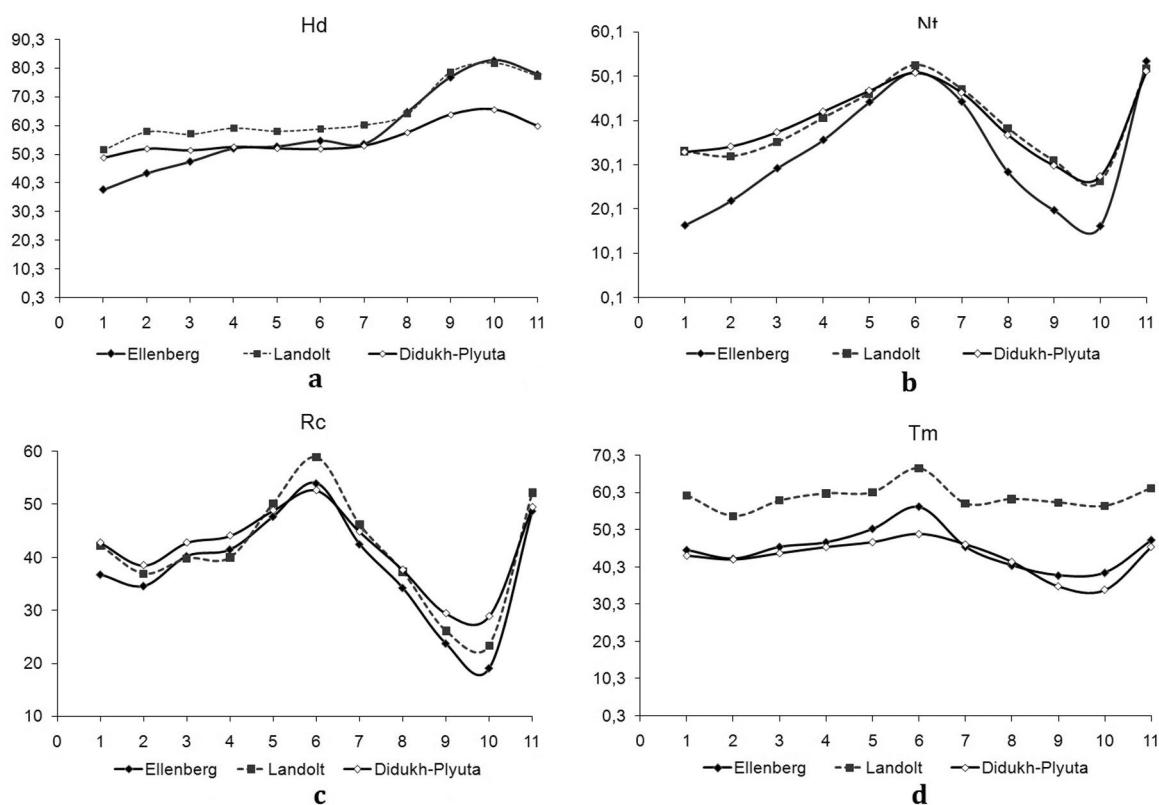


Fig. 8. The comparison of the different values of soil humidity (a), mineral nitrogen (b), soil acidity (c), thermoregime (d), different scales with the identical dimension (in percentage) of the phytocenoses of the Central Belarus. The X axis has the following association numbers: 1 – Cladonio-Pinetum; 2 – Dicrano-Pinetum; 3 – Peucedano-Pinetum; 4 – Quercu roboris-Pinetum; 5 – Serratulo-Pinetum; 6 – Quercu-Piceetum; 7 – Tilio-Carpinetum; 8 – Molinio caeruleae-Pinetum; 9 – Vaccinio uliginosi-Pinetum; 10 – Ledo-Sphagnetum magellanici; 11 – Sphagno squarrosi-Alnetum. The Y axis represents the percentage of the corresponding phytointication scale (Tsvirko).

on the scales of Ellenberg (1991), Landolt (1977) and Didukh, Plyuta (1994) (Fig.8). The calculations were conducted based on 265 geobotanical surveys of the communities with a dominance of *Pinus sylvestris* in Central Belarus. The data was analyzed by software STATISTICA 6.0 and MS Excel 2003. For the description analysis TWISPAN program as a part of JUICE software was used.

As shown on the Fig. 8, the use of all three scales with the same dimension (%) demonstrates similar character of indices' changes by three edaphic factors and differs from the indices of continental climate, scales of which are built according to different principles.

The method of ecological profiles was used by us for the assessment of ecological indices changes in distribution of plant community on the territory (Fig. 9). The obtained graphic data allows assessment of the character of index changes (gradient) and dependency between them for different factors. The difference of visual representation from mathematical calculation consists in fact that

in different parts of profile we observe different dependency between index changes of different factors and it can be easily determined as special “breaking points”. The gradient of factor changes is a very important feature, which can be seen on the profile as an angle of graph fall, it plays an important limited role. When the representative data for region are present, indices of “ecological background” are calculated – average means of factor for specific region (Goncharenko, 2003), which are used for the comparison analysis of indices by specific factors for the different region; it provides the transition from landscape to regional level of index representation of factor changes.

Method of indirect ordination reflects ecological amplitude of the specific type of community (syntaxa), dependency of their changes concerning two selected factors, and also character of dependency changes between lasts based on distribution (location) of syntaxa in appropriate coordinate system (Fig. 10, 11). Such dependency assessment approach between factor influences

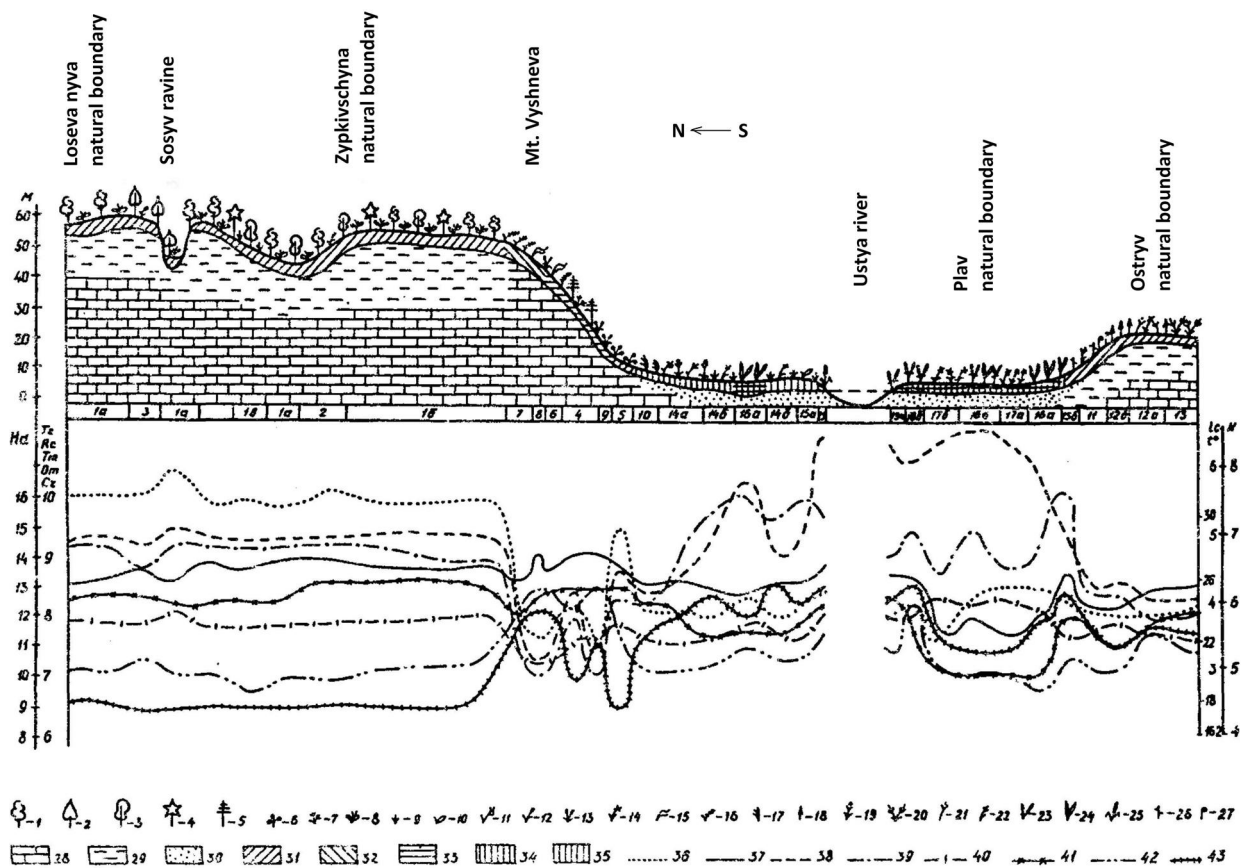
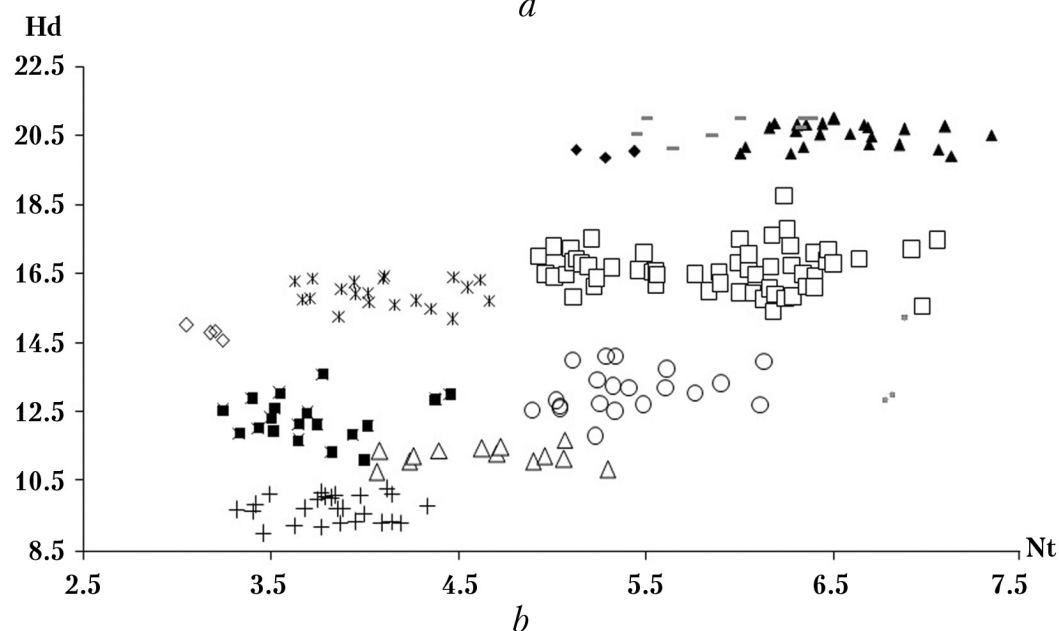
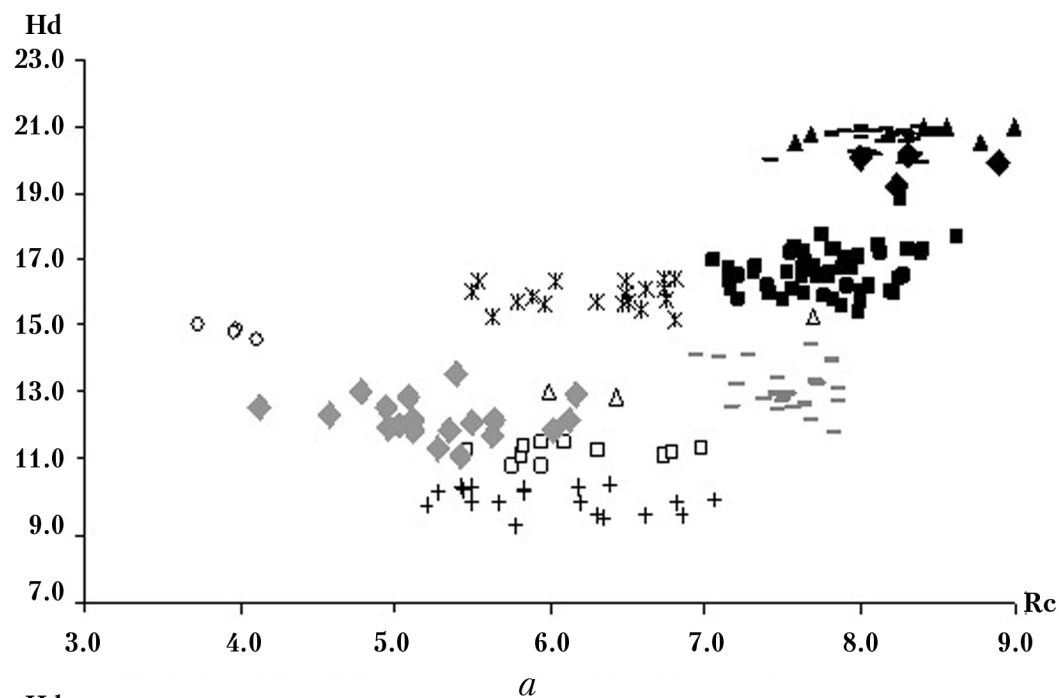


Fig. 9. The pattern of ecological factor distribution according to the landscape and vegetation cover features of Vyshneva Hora prereserve (Rivno region). For the indicators: 1 – *Carpinus betulus*, 2 – *Tilia cordata*, 3 – *Betula pendula*, 4 – *Acer platanoides*, 5 – *Pinus sylvestris*, 6 – *Berberis vulgaris*, *Swida sanguinea*, 7 – *Cerasus fruticosa*, 8 – *Aegopodium podagraria*, 9 – *Impatiens noli-tangere*, 10 – *Rumex confertus*, 11 – *Trifolium repens*, 12 – *Carex pilosa*, 13 – *C. humilis*, 14 – *C. acuta*, 15 – *Stipa capillata*, 16 – *Elytrigia intermedia*, 17 – *Poa pretense*, 18 – *Festuca pratensis*, 19 – *Lolium perenne*, 20 – *Dactylis glomerata*, 21 – *Briza media*, 22 – *Deschampsia caespitosa*, 23 – *Phragmites australis*, 24 – *Acorus calamus*, 25 – *Typha angustifolia*, 26 – *Phleum pratense*, 27 – *Carex hirta*. The mainland deposits and soils: 28 – chalk, 29 – loess, 30 – alluvial deposits, 31 – grey podzolic soils, 32 – gley soils on loam, 33 – rendzinas, 34 – meadow soddy and soddy soils on loam, 35 – peat bog soils. The ecological factors: 36 – light (Lc), 37 – thermoregime (Tm), 38 – humidity of soil (Hd), 39 – nitrogen content in soil (Nt), 40 – soil temperature (single measurements), 41 – ombroregime (Om), 42 – crioregime (Cr), 43 – soil acidity (Rc), 44 – salt regime (Sl).

gives an opportunity to use cause and effect analysis. It is important to reflect not only direct or inversely linear dependency between index changes, but also absence of dependency between indices. It means that such factors have to be considered as independent and their role in phytocenoses distribution is also important.

For the assessment of limiting factors we use the principal component method. This method makes it possible to assess the role and importance degree of each factor, its significance in the community and its distribution. Obtained significance quantitative data, converted into coefficients, can be used in assessment of cumulative effect influence in different factors on the character of community differentiation.

In order to assess the complex effect of limiting factors on the differentiation of vegetation we use cluster analysis. Since the dimensions of ecological scales are different, their “alignment” is conducted through the conversion of percentage indices of grade concerning dimension of each scale, which is taken as 100%. On the next stage, based on the index aggregate of all factors’ similarity degree between different types of community is calculated. All mentioned above is reflected in the dendrogram (Fig. 13). During calculations, the coefficients of significance could be used, for each factor, which are obtained from the use of the principal component method. However, at this stage of research we didn’t use this method and still got quite informative results when the factors



- ◆ Utricularitea intermedio-minoris
- ◇ Oxycocco-Sphagnetea
- ▲ Lemnetaea minoris
- Nardo-Callunetea
- \* Scheichzerio-Caricetea
- Potametea
- △ Trifolio-Geranitea
- + Koelerio glaucae-Corynephoretea canescentis
- Molinio-Arrhenatheretea
- Phragmiti-Magnocaricetea
- \* Isoeto-Nanojuncetea

Fig. 10. The distribution of vegetation classes of the TBR “West Polesie” (Volyn region) according to the factors: a – Hd-Rc; b – Hd-Nt.

are considered as equal. The selected clusters and general rule of community distribution reflects the influence of the main ecological factor that determines their differentiation.

The obtained indices of ecological factors’ changes are important for further research and calculations. In particular, ecological maps are built basing on this.

Phytoindication indices can be grouped for the assessment of the extent of ecological and coenoses’ amplitudes of certain plant species, i.e. for the calculation of their ecological niche. Basing on these approaches it is now possible to create ecological scales for those species that were previously absent in the database. However, it should be considering that obtained amplitude indices are considerably

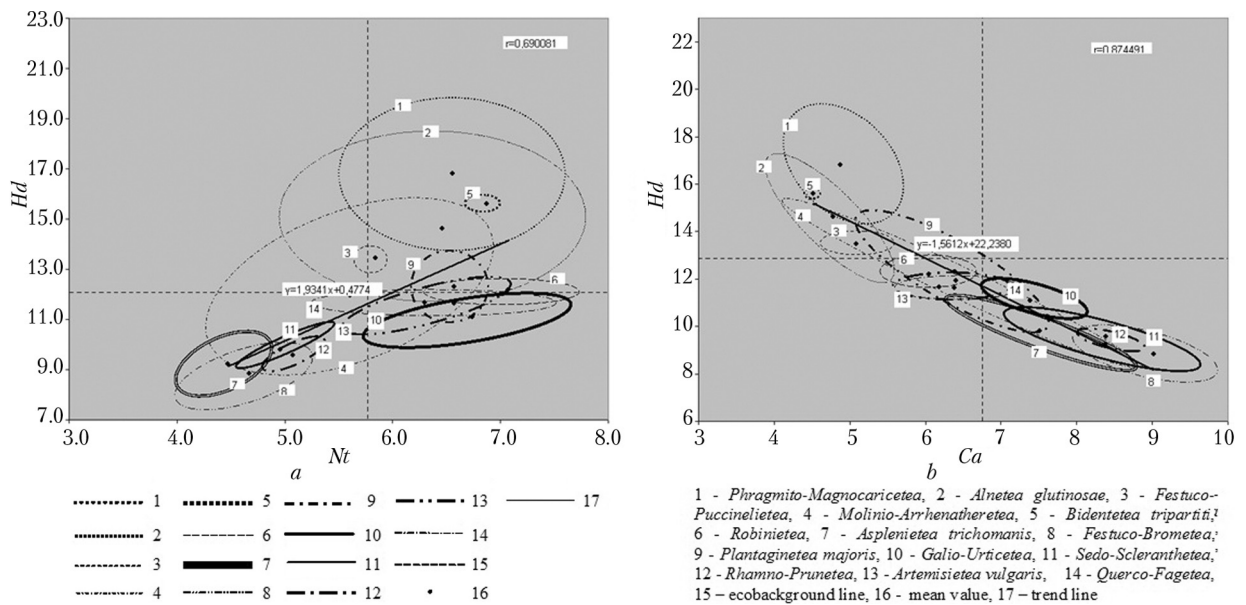


Fig. 11. The distribution pattern of the vegetation classes of Central Podillia in Ukraine according to the correlation of different ecological factors: a) Hd-Nt; b) Hd-Ca.

more limited than the potential scale for the species. However, they provide an opportunity to determine the optimum position in the scale, which is important in the further elaboration of scales.

Synphytoindication method was successfully used to predict the vegetation succession. As an example, we give the analysis of the steppe vegetation succession in “Mykhailivska Tsilyna” under the conditions of an absolute protection (Tkachenko, Lysenko, Vakal, 1993). Indices’ calculation of geobotanical surveys made in 1927-1993 showed that the succession process under absolute protection is clearly directed towards the formation of forest communities. We observe not only the displacement of the appropriate indices, but also expanding of ecological amplitudes of certain types of community. As a result, the amplitude in 1927 does not overlap with a peak in 1993. In other words, irreversible qualitative changes have been occurring for the last 60 years in “Mykhaylivska Tsilyna”. These changes were visually manifested

as a transition from steppe to meadow with an appearance of some shrub and tree species including *Prunus spinosa* and some others (Fig. 16a). Similar changes have been observed in Khomutovsky steppe reserve (1969-2005) (Tkachenko, 2008) (Fig. 16b).

The example of assessment of ecological indicators, which depend on coenosis structure, is demonstrated on ecological profiles laid at the same time in Steppe zone (Mykolaiv region) through the forest and grassland communities. The differences of obtained indicators (Fig. 17) show the “forest effect” and confirm that soils and microclimate parameters change after forest cutting. This is the important result for conducting of ecological expertise and elaboration of models and forecasting of such types.

The potential applications of synphytoindication techniques are not confined only to the mentioned examples. The synphytoindication needs the improvement and development of new scales, and is among the most promising trends in modern plant ecology.

Factor Loadings, Factor 1 vs. Factor 2 vs. Factor 3  
 Rotation: Varimax normalized  
 Extraction: Principal components

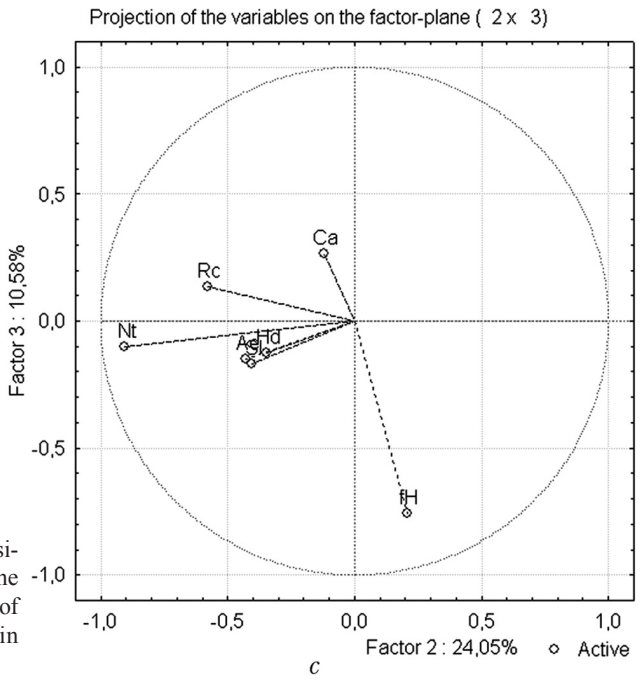
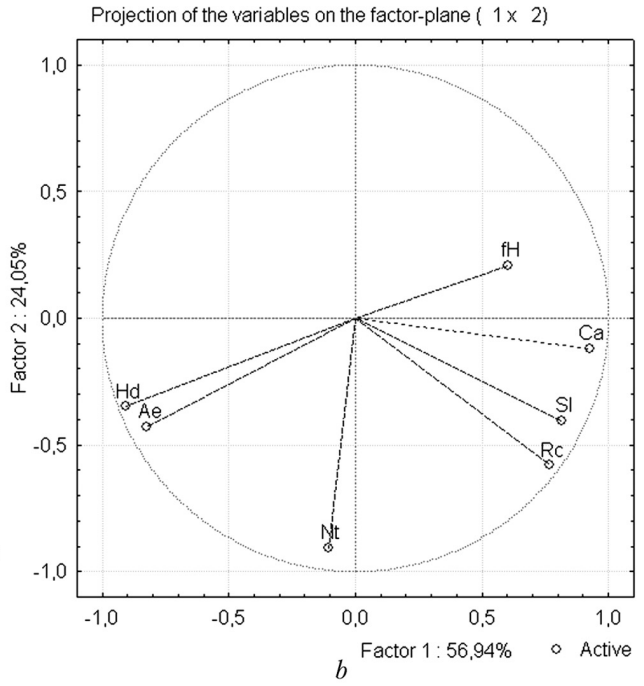
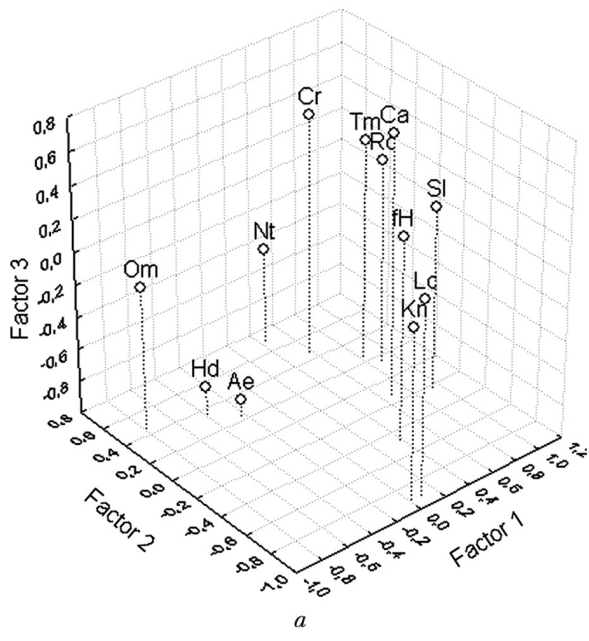


Fig. 12. The method of the main components: a – the positions of ecological factors in three dimensional space; b – the position of ecological factors in two dimensional space of main factors 1 and 2; c - the position of ecological factors in two dimensional space of main factors 2 and 3.

Ward's method, Euclidean distances

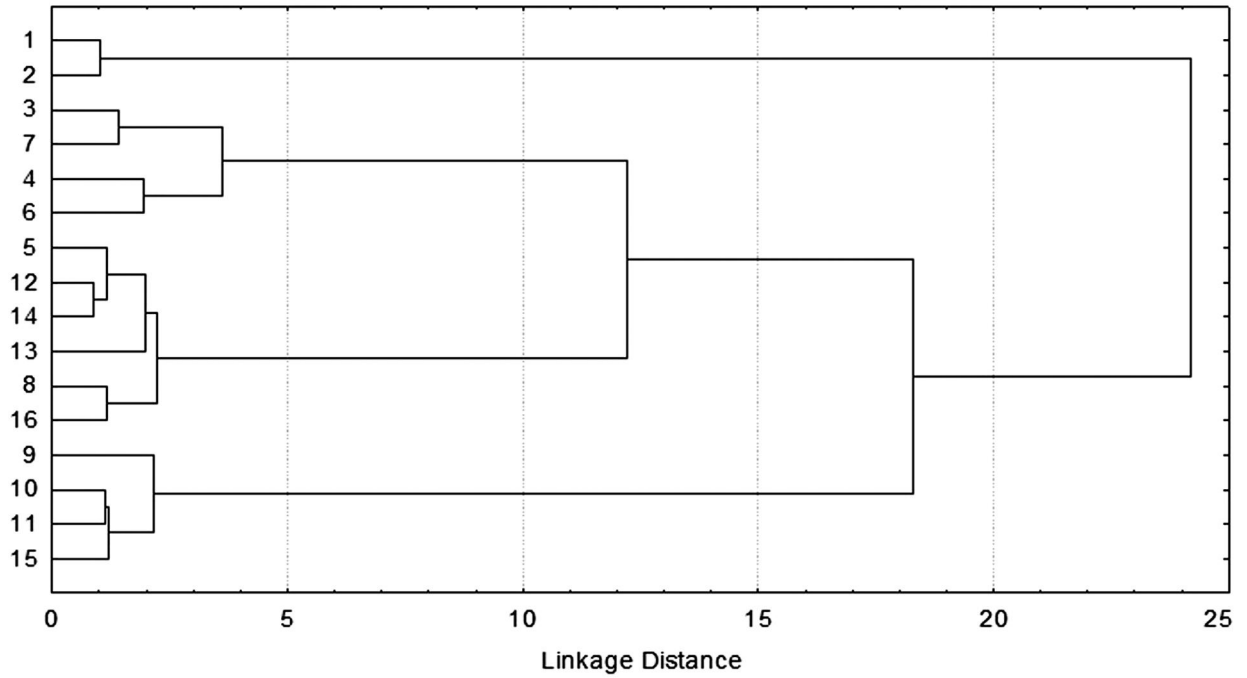


Fig. 13. The similarity dendrogram of 90 biotopes of the Forest and Forest-Steppe zone of the flatland Ukraine built on the basis of assessment of mean values of the main ecological factors. C – water bodies; D – bogs; E – grasslands; F – shrubs; H – inland cliffs, rock pavements and outcrops; I – agricultural biotopes.

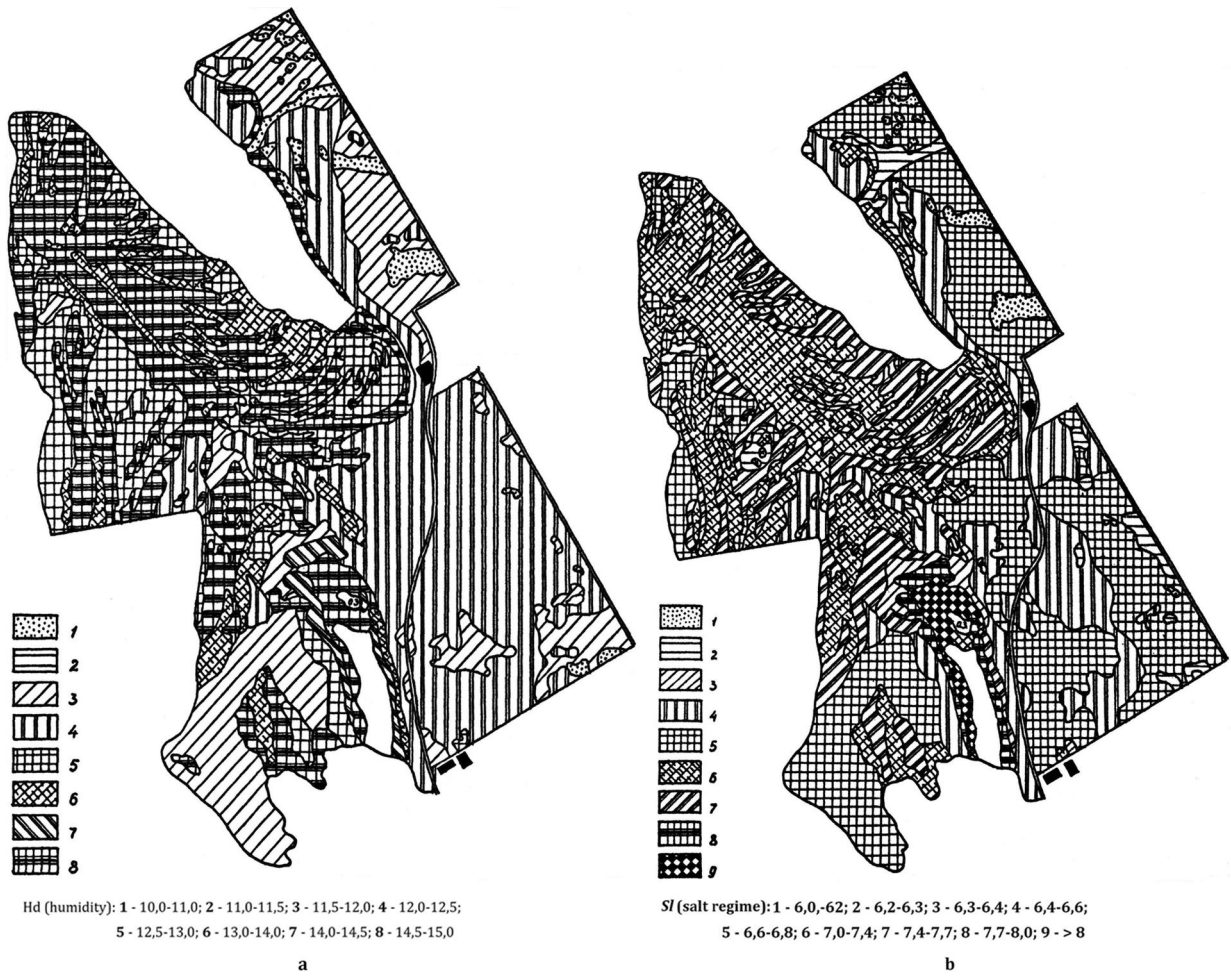
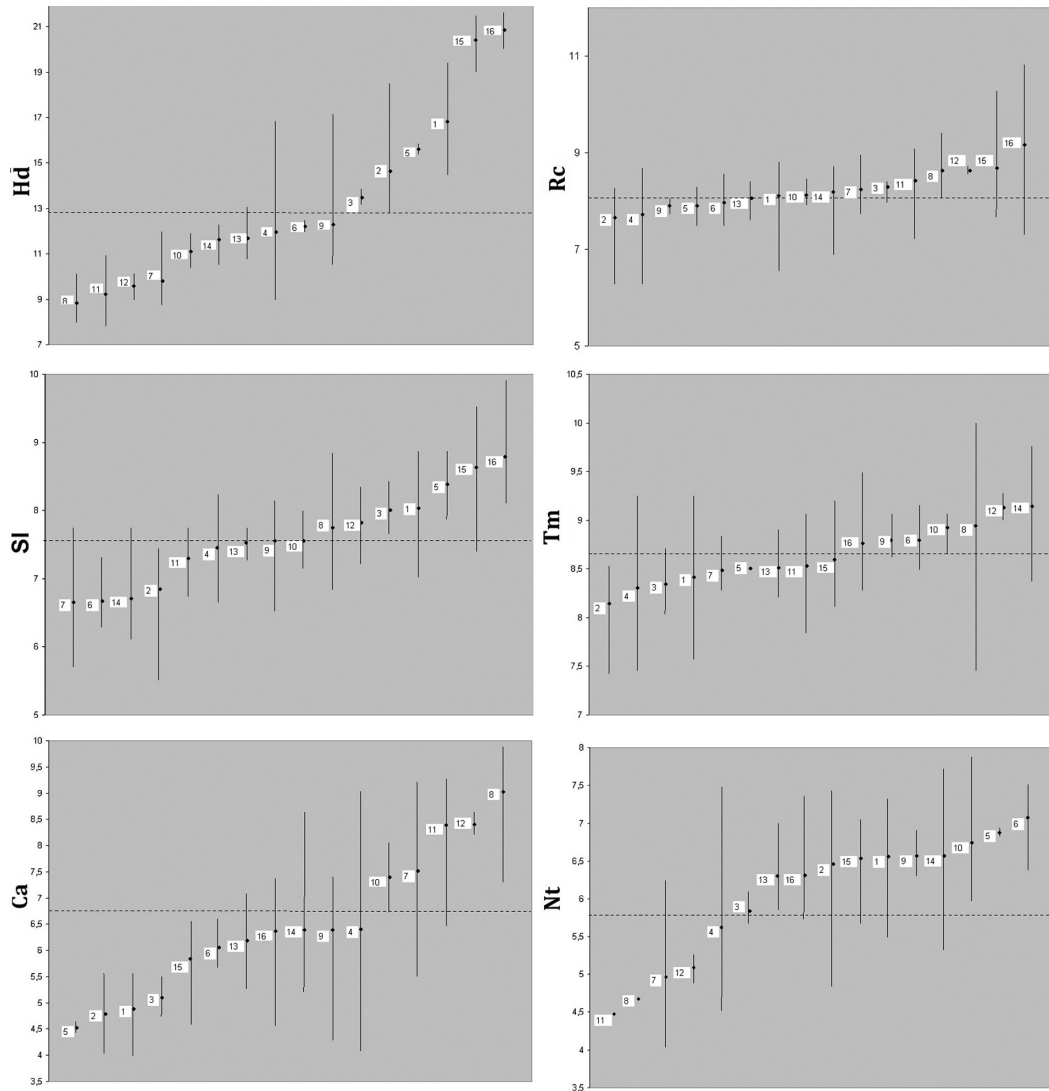


Fig. 14. Ecological maps of “Lisnyky” reserve (Kyiv city), built on the basis of synphytoindication method.



1 - *Phragmito-Magnocaricetea*, 2 - *Festuco-Puccinellieta*, 3 - *Molinio-Arrhenatheretea*, 4 - *Alneta glutinosae*, 5 - *Bidentetea tripartiti*, 6 - *Robinieta*, 7 - *Asplenieta*, 8 - *Festuco-Brometea*, 9 - *Sedo-Scleranthetea*, 10 - *Plantaginea majoris*, 11 - *Galio-Urticetea*, 12 - *Artemisieteae vulgaris*, 13 - *Rhamno-Prunetea*, 14 - *Quercu-Fagetea*; 15 - *Potametea*; 16 - *Lemneteae*

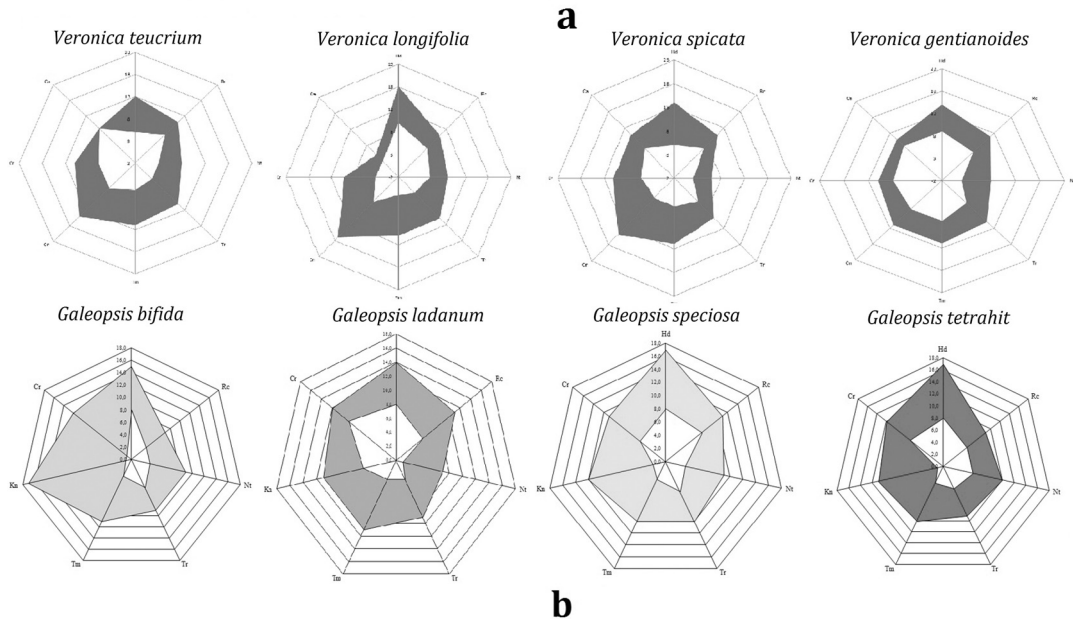


Fig. 15. The examples of the ecological amplitude assessment of the different types of a) plant communities of central Podillia and b) species (*Veronica*, *Galeopsis*) reflecting their ecological niche.

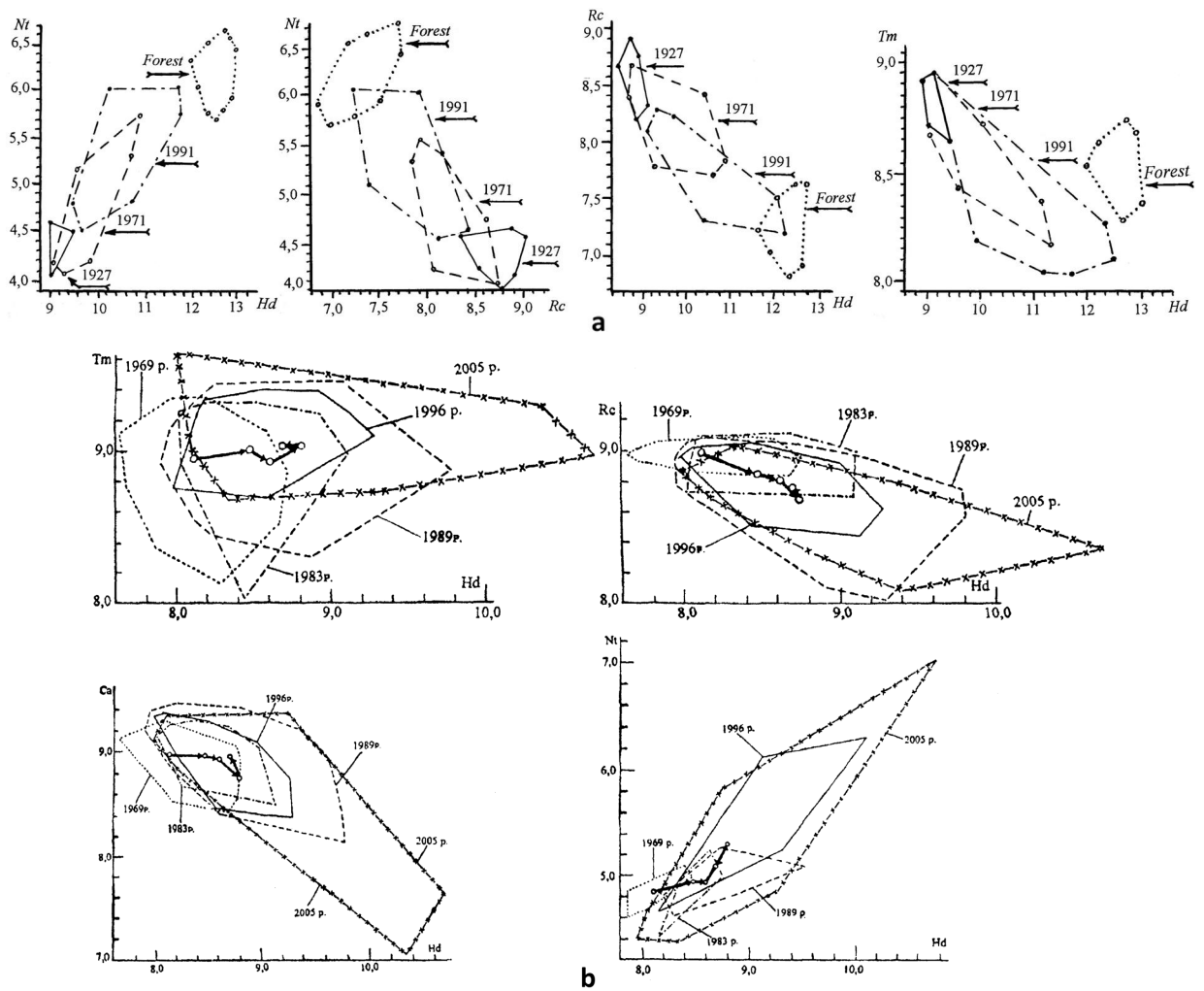


Fig. 16. The changes in ecological characteristics of the meadow-steppe communities in the as a result of establishing absolute protection and their trend towards the forest formation. a) “Mykhaylivska Tsilyna” reserve: “ordination field” edges of the meadow-steppe conenoses in 1927.; the same parameters in 1971 p.; the same in 1991; the same for the broad-leaved forests (*Stellario holostaeae-Aceretum platanoidis*) (Tkachenko, Vakal, Lysenko, 1993); b) changes in Khomutovsky steppe reserve (1969-2005) (Tkachenko, 2008).



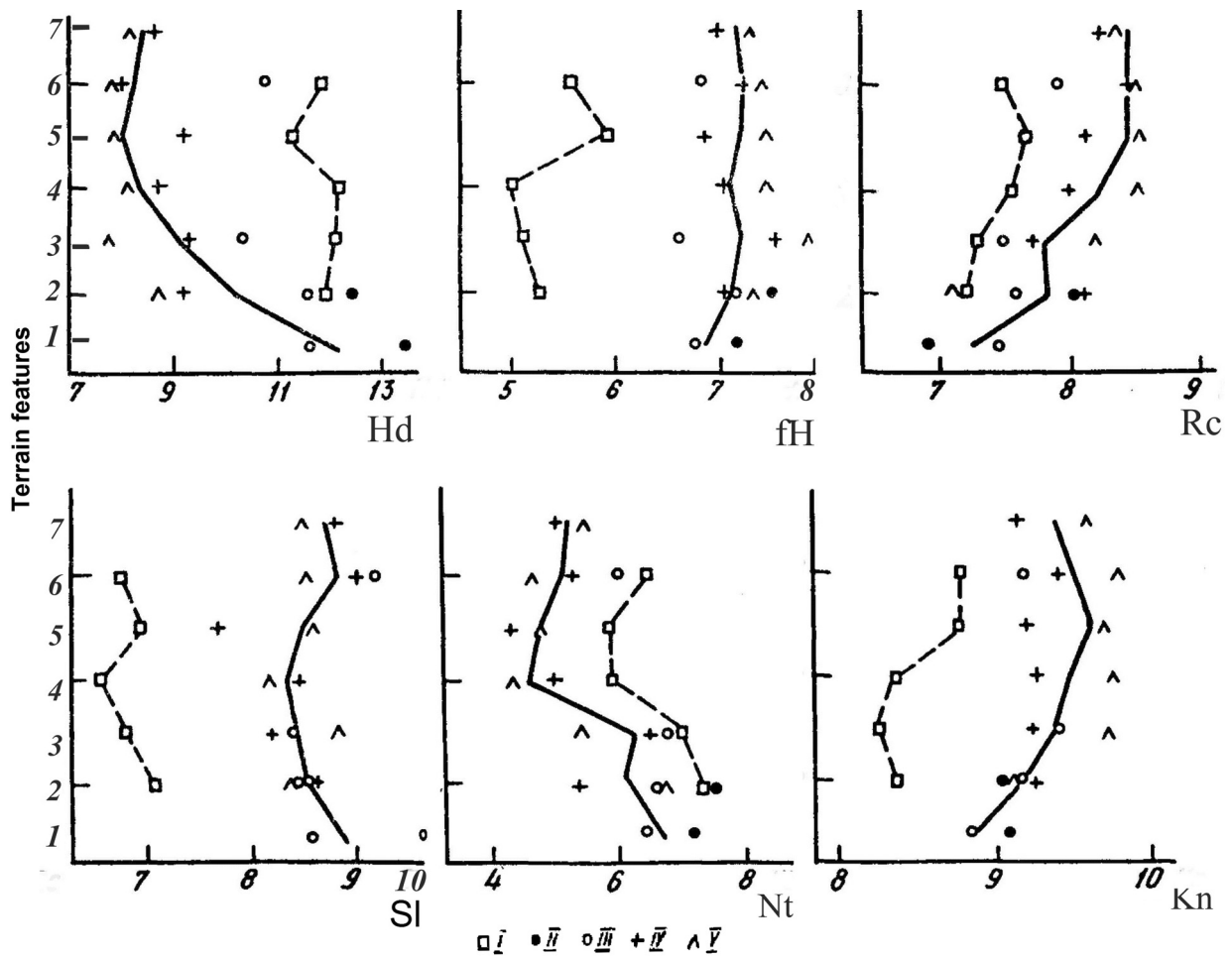


Fig. 17. The change in the indicators of ecological factors (Y of the score point) for herbaceous and forest communities related to the terrain features in the Steppe zone of Ukraine. The terrain features: 1 – flood area, 2 – valley bottoms, 3 – lower, 4 – medium and 5 – upper parts of the slope, 6 – placore areas. Plant communities: 1 – *Quercus-Fagetea*; 2 – *Phragmito-Magnocaricetea*; 3 – *Molinio-Arrhenatheretea*; 4 – *Festuco-Brometea* (*Fragario viridis-Trifolion montani*); 5 – *Festuco-Brometea* (*Festucion, Astragalo-Stipion*).

## Ecological scale of species of flora of Ukraine

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SII	SIA	CaI	CaA	NI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	Ch	CrA	LeI	LcA
<i>Abies alba</i> Mill.	9	15	1	3	4	10	4	9	2	6	3	8	5	10	8	11	12	17	7	9	9	11	1	5
<i>Abutilon theophrasti</i> Medik	7	16	5	9	6	10	5	9	5	10	6	10	5	9	8	14	1	14	5	17	4	13	7	9
<i>Acer campestre</i> L.	8	15	3	7	7	11	4	9	5	9	3	9	5	9	7	12	10	16	3	12	7	11	3	7
<i>Acer negundo</i> L.	8	15	3	7	5	10	5	9	4	11	4	9	5	9	7	15	8	13					3	7
<i>Acer platanoides</i> L.	8	16	3	6	7	11	4	9	5	9	3	8	5	9	6	11	10	14	5	12	6	10	2	7
<i>Acer pseudoplatanus</i> L.	8	16	2	7	5	10	5	9	5	10	5	10	5	10	7	12	11	14	3	11	9	12	2	7
<i>Acer rubrum</i> L.	9	17	2	7	5	10	5	9	5	9	4	9	5	10	3	14			3	12			3	7
<i>Acer stevenii</i> Pojark.	8	15	3	7	5	11	4	10	5	10	3	9	5	9	9	10	11	13	8	9	9	10	3	7
<i>Acer tataricum</i> L.	8	15	3	7	6	11	4	9	7	9	5	10	5	9	8	12	8	13	7	13	6	10	3	7
<i>Achillea carpatica</i> Blocki ex Dubovik	9	14	3	6	3	8	3	10	4	8	1	8	5	8	5	7	14	18	7	9	7	8	6	9
<i>Achillea collina</i> J. Becker ex Reichenb.	5	13	6	9	7	11	9	11	4	9	1	6	4	7	8	12	10	14	8	12	7	10	7	9
<i>Achillea euxina</i> Klokov	6	13	9	11	5	11	5	10	4	7	3	9	3	6	10	11	10	11	10	11	8	9	8	9
<i>Achillea glaberrima</i> Klokov	5	14	2	7	5	12	5	11	1	3	2	7	3	6	9	10	10	12	11	12	8	9	8	9
<i>Achillea inundata</i> Kondr.	10	16	9	11	6	9	5	10	4	7	3	9	5	8	8	10	10	12	10	12	7	9	7	9
<i>Achillea leptophylla</i> Bieb.	1	6	6	9	7	11	9	11	6	11	5	7	3	7	9	11	10	12	10	11	8	9	8	9
<i>Achillea micrantha</i> Willd.	3	11	6	10	3	12	5	12	4	10	1	6	3	6	9	12	8	11	10	13	6	9	7	9
<i>Achillea micranthoides</i> Klokov	6	10	6	10	11	13	9	15	4	7	4	7	6	9	10	11	10	10	11	11	8	9	8	9
<i>Achillea millefolium</i> L. p. p.	5	15	6	9	5	9	3	11	4	10	3	9	4	7	2	13	8	18	5	10	8	10	6	9
<i>Achillea neitreichii</i> A. Kerner	5	11	6	9	7	11	7	11	8	10	3	7	4	8	9	12	6	10	8	12	9	11	7	9
<i>Achillea nobilis</i> L.	3	13	6	9	7	11	6	12	8	10	3	7	4	8	6	12	6	14	6	17	6	9	7	9
<i>Achillea ochroleuca</i> Ehrh.	5	12	6	10	7	11	6	10	6	9	3	7	3	6	9	11	10	12	10	11	9	10	8	9
<i>Achillea pannonica</i> Scheele	6	15	6	9	5	9	6	10	7	11	3	8	4	7	7	11	10	14	7	12	8	12	7	8
<i>Achillea setacea</i> Waldst. et Kit.	2	13	6	9	6	12	5	14	8	11	1	6	4	7	9	11	6	13	6	14	6	12	8	9

Achillea stricta (Koch) Schleicher ex Gremli	8	15	3	6	4	7	3	6	6	4	8	3	6	6	8	3	5	16	18	6	7	5	7	5	9
Achillea taurica Bieb.	2	6	6	9	7	11	9	11	7	9	12	3	7	3	7	7	11	9	11	11	16	6	9	8	9
Achnatherum bromoides (L.) Beauv.	5	13	3	6	7	12	5	12	8	7	11	2	8	4	7	11	14	6	12	2	9	10	13	6	9
Achyrophorus maculatus (L.) Scop.	7	13	4	7	5	10	5	11	7	7	10	2	5	4	7	4	11	3	15	5	17	4	10	5	9
Achyrophorus uniflorus (Vill.) Bluff et Fingerh.	11	13	3	6	5	8	3	10	4	4	6	1	7	4	7	3	5	14	18	6	9	7	8	7	9
Acinos arvensis (Lam.) Dandy	3	13	4	10	6	11	5	10	6	6	11	1	5	4	7	4	12	3	16	3	13	7	10	8	9
Acinos baumgartenii (Simonk.) Klokov			3	6	3	6	3	7	9	9	11	1	4	4	7	3	5	16	18	6	8	8	10	7	9
Acinos eglandulosus Klokov	5	11	4	10	7	12	6	11	7	7	12	1	8	4	7	9	11	10	12	8	11	9	10	7	9
Aconitum anthora L.	7	13	3	7	7	12	5	9	9	9	12	3	8	5	7	7	11	3	13	8	17	5	10	6	9
Aconitum besseranum Andrz.	9	15	3	6	6	9	3	9	8	8	11	6	9	5	8	8	9	11	13	8	10	8	8	3	7
Aconitum bucoviense Zapal.	10	16	3	5	4	8	5	7	3	3	7	3	7	6	9	3	5	15	17	7	8	7	8	5	8
Aconitum confertiflorum (DC.) Worosch.	7	13	3	7	7	12	5	9	9	9	12	3	8	5	7	7	10	10	14	7	10	8	10	6	9
Aconitum degenii Gay	14	18	3	8	5	9	4	7				6	10	6	10	4	8	14	18	4	8	7	11	3	8
Aconitum firmum Reichenb.	10	15	3	5	4	8	5	7	3	3	7	5	10	6	9	4	5	15	17	7	9	7	9	3	9
Aconitum gracile Reichenb.	8	17	3	7	5	9	3	6	7	7	10	5	8	5	10	7	11	11	14	6	10	8	11	3	8
Aconitum hosteanum Schur	9	14	3	7	7	10	3	5	9	9	12	4	6	4	6	7	8	15	18	7	8	8	9	3	8
Aconitum jacquinii Reichenb.	10	15	3	6	6	9	3	8	7	7	11	3	8	6	9	6	9	11	18	7	9	8	9	6	9
Aconitum lasiostomum Reichenb.	10	16	2	4	7	8	4	9	7	7	12	5	9	7	9	6	10	6	11	8	13	6	9	3	8
Aconitum moldavicum Haecq.	9	17	2	7	7	8	6	7	6	6	11	5	10	3	6	7	11	11	17	6	10	9	10	7	9
Aconitum nanum (Baumg.) Simonk.	10	15	3	5	4	9	5	7	5	5	11	2	5	6	9	3	5	15	17	7	8	7	8	5	9
Aconitum nemorosum Bieb. ex Reichenb.	7	13	3	7	7	12	5	11	9	9	12	3	8	5	8	7	10	11	13	9	11	8	9	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	Knl	KnA	CrI	CrA	LcI	LcA
<i>Aconitum paniculatum</i> Lam.	10	17	2	5	7	10	4	7			5	10	7	10	7	8	14	18	5	8	7	11	6	8
<i>Aconitum pseudanthora</i> (Blocki ex Pacz.) Wiss	6	11	3	7	7	12	5	9	9	12	3	8	5	7	9	9	12	13	9	9	9	9	7	9
<i>Aconitum variegatum</i> L.	8	18	3	7	5	10	3	7	7	11	5	8	5	10	7	11	11	14	6	10	8	11	3	8
<i>Acorus calamus</i> L.	16	19	9	11	6	11	6	11	4	7	5	10	11	13	5	14	5	15	5	13	3	12	7	9
<i>Acroptilon repens</i> (L.) DC.	1	15	8	11	9	12	8	15	6	9	3	7	6	9	9	12	5	12	9	17	4	10	8	9
<i>Actaea spicata</i> L.	9	17	2	7	5	9	5	9	4	10	5	10	5	10	4	11	5	12	2	12	6	12	3	6
<i>Adenophora liliifolia</i> (L.) A. DC	8	14	4	7	7	11	5	9	4	8	3	8	5	8	7	11	11	14	5	9	5	11	5	8
<i>Adenostyles alliariae</i> (Gouan) A. Kerner	9	15	3	6	5	9	3	10	4	9	5	10	4	7	4	8	14	16	4	7	6	10	5	7
<i>Adiantum capillus-veneris</i> L.	13	19	7	10	9	12	9	13	10	12	1	6	4	6	8	17	3	20	2	15	10	15	6	9
<i>Adonis aestivalis</i> L.	4	13	4	10	7	11	7	11	8	11	6	9	3	7	8	14	3	14	6	17	6	13	7	9
<i>Adonis annua</i> L.	5	13	4	9	8	10	7	10	8	11	5	8	4	7	8	14	5	15	3	15	9	13	7	9
<i>Adonis flammea</i> Jacq.	3	12	4	9	9	12	8	14	8	11	6	9	4	7	8	14	9	15	6	15	9	13	7	9
<i>Adonis vernalis</i> L.	3	12	5	8	7	12	5	11	7	11	3	7	3	7	7	12	10	13	6	14	6	10	7	9
<i>Adonis wolgensis</i> Stev.	4	10	5	8	7	12	7	10	7	11	3	7	4	7	7	11	10	12	9	14	6	10	7	9
<i>Adoxa moschatellina</i> L.	9	17	2	7	7	11	5	9	4	7	5	11	5	10	2	14	11	16	5	11	2	11	4	5
<i>Aegilops biuncialis</i> Vis.	3	10	7	10	7	12	5	13	7	11	5	10	5	8	11	14	5	11	6	13	8	13	7	9
<i>Aegilops cylindrica</i> Host	3	10	7	10	7	12	5	13	7	11	3	8	5	8	7	13	7	15	6	15	7	12	7	9
<i>Aegilops ovata</i> L.	3	10	7	10	7	12	5	12	7	11	5	9	5	8	11	14	3	11	5	17	9	13	7	9
<i>Aegilops triuncialis</i> L.	3	10	7	10	7	12	6	13	7	11	1	8	5	8	11	14	3	11	6	16	9	13	7	9
<i>Aegonychon purpureo- caeruleum</i> (L.) Holub	7	13	6	8	7	11	5	9	9	11	3	7	4	6	9	12	10	12	6	10	8	11	4	6
<i>Aegopodium podagraria</i> L.	9	17	2	7	5	11	4	9	4	7	6	10	5	10	5	12	12	17	1	12	5	12	2	5
<i>Aeluropus littoralis</i> (Gouan) Parl.	3	16	9	11	12	15	13	17	4	7	3	10	6	8	10	14	5	10	8	17	9	12	8	9
<i>Aesculus hippocastanum</i> L.	9	16	2	7	5	10	5	9	5	9	3	9	5	9	10	14			11	12	9	12	4	5
<i>Aethusa cynapium</i> L.	8	15	3	9	7	11	5	9	4	9	5	10	5	9	5	12	9	16	5	11	5	12	5	9

Agrimonia eupatoria L.	6	15	5	8	6	11	6	10	4	11	3	7	3	7	6	14	6	16	2	13	6	13	6	9
Agrimonia grandis Andr. ex C.A. Mey.	8	13	4	7	7	8	4	9	4	10	3	7	5	9	7	14	5	14	3	13	7	13	5	8
Agrimonia pilosa Ledeb.	9	13	4	8	5	9	4	9	3	7	3	7	4	9	6	14	11	14	7	13	2	9	5	8
Agrimonia procera Wallr.	8	15	4	7	6	11	4	9	4	9	3	8	5	9	6	11	12	15	2	12	9	11	5	8
Agropyron dasyanthum Ledeb.	5	13	9	11	3	12	5	12	3	5	1	6	3	6	9	11	10	11	10	11	8	9	8	9
Agropyron desertorum (Fisch. ex Link)Schult. et Schult.	1	8	2	6	9	12	9	14	9	12	1	7	4	7	7	11	5	11	9	16	6	10	8	9
Agropyron lavrenkoanum Prokud.	5	12	9	11	5	12	5	12	5	8	1	7	3	6	8	11	10	12	10	11	8	9	8	9
Agropyron pectinatum (Bieb)Beauv.	2	13	7	9	7	12	5	15	8	10	3	8	4	7	7	11	5	13	6	17	6	10	8	9
Agropyron ponticum Nevski	2	11	6	8	7	12	6	12	9	12	1	6	4	7	11	12	9	10	8	10	9	10	8	9
Agrostemma githago L.	5	15	6	10	5	10	5	12	3	9	5	9	5	9	5	14	6	16	2	17	5	13	7	9
Agrostis alpina Scop.	7	15	4	6	3	7	2	6	1	4	1	4	4	7	3	6	13	18	6	8	4	7	8	9
Agrostis canina L.	10	19	8	11	3	7	3	10	2	5	1	5	5	11	4	12	5	18	1	14	3	12	6	9
Agrostis gigantea Roth	10	19	8	11	7	11	5	15	2	7	3	9	5	8	3	14	5	18	1	17	1	14	6	9
Agrostis rupestris All.	7	15	4	7	1	6	2	4	2	6	1	5	4	7	3	5	16	18	6	8	5	8	7	8
Agrostis sabulicola Klokov	8	13	9	11	5	11	5	11	4	7	3	8	3	6	9	11	10	11	10	11	8	9	8	9
Agrostis stolonifera L.	11	20	9	11	5	9	5	15	3	7	3	9	8	12	3	13	3	18	1	17	1	14	7	9
Agrostis tenuis Sibth.	7	16	4	8	3	7	3	11	4	7	2	7	4	7	3	13	3	18	2	17	3	13	6	9
Agrostis vinealis Schreb.	7	16	5	11	6	10	5	12	6	10	3	8	4	7	6	11	8	14	6	11	6	9	7	9
Ailanthus altissima (Mill.) Swingle	6	14	6	10	6	11	4	14	7	10	3	9	4	7	8	14	5	12	1	17	7	15	5	9
Aira caryophyllea L.	5	12	7	11	3	7	3	8	5	9	1	5	3	6	7	17	10	16	1	9	9	14	7	9
Aira elegans Willd.ex Gaud.	5	12	6	9	9	11	5	11	7	10	2	7	3	6	10	14	7	13	5	12	9	13	6	9
Ajuga chamaepitys (L.) Schreb.	7	13	5	8	9	12	7	11	8	11	1	5	4	6	7	14	6	15	4	15	6	13	7	8
Ajuga chia Schreb.	3	11	7	10	7	12	5	11	8	12	2	7	3	6	9	13	6	11	6	14	9	13	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Ajuga genevensis</i> L.	4	13	3	7	5	11	5	10	8	10	2	7	4	8	6	14	9	14	4	12	6	12	7	8
<i>Ajuga laxmannii</i> (L.) Benth.	6	12	5	8	7	12	6	11	7	11	3	7	4	7	8	11	10	12	7	11	9	10	7	9
<i>Ajuga orientalis</i> L.	5	11	4	8	7	12	5	12	8	11	2	8	4	7	9	14	5	12	6	11	9	13	6	9
<i>Ajuga reptans</i> L.	9	15	3	6	5	10	3	9	3	7	4	9	5	9	4	13	11	16	2	12	6	12	5	7
<i>Alcea heldreichii</i> (Boiss.) Boiss.	4	12			6	11	4	11	5	13	2	7	4	7	10	14	5	11	6	11	9	13	7	9
<i>Alcea novopocrovskii</i> Iljin	5	12	5	10	7	12	6	16	7	11	3	8	5	7	10	11	9	10	8	10	9	11	7	9
<i>Alcea pallida</i> (Waldst. et Kit. ex Willd.) Waldst. et Kit.	4	15	3	10	5	13	3	13	4	12	5	11	4	6	8	12	5	11	8	12	9	13	7	9
<i>Alcea rosea</i> L.	7	15			4	13	2	13	3	11	3	10	6	8	10	14	3	12	5	12	10	13	7	9
<i>Alcea rudosa</i> Alef.	5	12	5	10	7	12	6	16	7	11	3	8	5	7	8	12	9	12	8	15	6	11	7	9
<i>Alcea taurica</i> Iljin	5	12	5	10	7	12	6	16	7	11	3	8	5	7	8	12	9	12	8	11	9	11	7	9
<i>Alchemilla acutiloba</i> Opiz	11	17	4	9	5	8	4	7	4	7	4	7	6	9	6	9	10	18	8	10	3	11	5	9
<i>Alchemilla alpestris</i> F. W. Schmidt	10	16	3	6	5	10	3	10			3	6	4	7	4	9	15	17	1	8	8	11	2	9
<i>Alchemilla arcuatiloba</i> Juz.	6	14	6	9	9	11	7	10	9	11	3	7	4	7	7	8	12	13	7	8	7	8	7	9
<i>Alchemilla buschii</i> Juz.	6	14	6	9	9	11	7	10	9	12	3	7	4	6	8	9	11	12	7	8	7	8	7	9
<i>Alchemilla campopoda</i> Juz.	7	15	6	9	7	12	5	11	9	12	4	8	4	7	7	8	12	13	7	8	7	8	7	9
<i>Alchemilla crebridens</i> Juz.	8	15	5	9	7	12	5	11	7	10	4	8	6	9	7	8	12	13	7	8	7	9	6	9
<i>Alchemilla cymatophila</i> Juz.	10	16	3	7	5	11	5	10	5	9	3	9	5	9	4	11	12	16	4	13	6	11	5	8
<i>Alchemilla exuens</i> Juz.	8	15	5	9	7	12	5	11	9	11	4	8	4	7	7	8	11	13	6	9	6	8	6	9
<i>Alchemilla flabellata</i> Bus.	10	15	6	9	6	12	4	11	9	11	3	8	4	7	6	8	12	15	6	7	6	8	7	9
<i>Alchemilla glaucescens</i> Wallr.	7	14	6	9	7	11	4	11	9	11	3	7	4	6	6	9	12	16	2	9	7	11	7	9
<i>Alchemilla gracilis</i> Opiz	10	17	4	9	5	10	4	8	4	8	4	7	5	9	4	9	11	14	7	9	8	10	7	9
<i>Alchemilla hebescens</i> Juz.	8	15	5	9	7	12	5	11	9	11	4	8	4	7	7	8	11	13	7	8	7	9	6	9
<i>Alchemilla hirsuticaulis</i> H. Lindb.	9	16	4	9	5	10	5	10	5	9	4	9	4	7	6	9	12	14	4	12	5	8	6	9
<i>Alchemilla hirsutissima</i> Juz.	7	15	6	9	7	12	5	11	9	11	4	8	4	6	7	8	14	16	7	8	6	7	7	9

Alchemilla jaiiae Juz.	6	13	6	9	7	12	5	11	9	11	3	8	4	7	7	8	12	13	7	8	8	9	6	9
Alchemilla lithophila Juz.	6	13	5	9	7	12	5	11	9	11	3	8	4	6	7	8	12	13	7	8	8	9	7	9
Alchemilla monticola Opiz	8	16	4	9	5	10	4	7	4	7	4	7	6	9	4	8	12	13	9	11	7	9	7	9
Alchemilla nemoralis Alech.	9	15	3	7	5	11	5	10	5	9	3	9	5	9	7	9	11	13	7	8	7	9	5	8
Alchemilla phegophila Juz.	6	14	6	9	9	11	7	10	9	11	3	7	4	7	7	8	12	13	7	8	7	8	7	9
Alchemilla propinqua Lindb. fil. ex Juz.	9	16	4	9	5	8	4	7	5	9	4	8	6	9	5	8	12	13	8	10	7	8	7	9
Alchemilla sarmatica Juz.	8	15	4	9	5	11	5	10	5	9	3	9	5	9	4	9	11	14	4	15	5	9	6	9
Alchemilla stevenii Bus.	6	14	6	9	7	12	5	11	9	12	3	8	4	7	7	7	12	13	7	8	7	8	7	9
Alchemilla subcrenata Bus.	9	16	4	9	4	8	3	7	4	7	3	8	6	9	4	9	11	14	7	9	8	10	6	9
Alchemilla szaferei Pawl.	10	16	3	6	4	8	3	7	7	10	3	8	6	9	6	7	14	15	7	9	6	7	7	9
Alchemilla tyttantha Juz.	9	16	3	7	5	10	5	10	9	11	5	9	5	8	7	9	11	13	7	8	7	9	7	9
Alchemilla vinacea Juz.	8	16	5	8	7	11	5	11	9	11	4	9	5	8	7	9	12	13	7	8	8	9	6	9
Alchemilla zapalowiczii Pawl.	10	16	3	6	4	8	3	7	7	10	3	8	6	9	6	7	14	15	7	8	6	7	7	9
Aldrovanda vesiculosa L.	19	23	1	3	7	11	5	9	1	4	1	7	9	11	6	17	10	13	5	14	9	15	6	7
Alisma gramineum Lej.	16	21	9	11	7	12	7	16	5	7	5	9	9	13	6	13	11	15	6	11	4	11	7	8
Alisma lanceolatum With.	16	19	9	11	7	11	6	13	5	7	4	9	9	13	7	15	7	14	2	16	6	13	7	8
Alisma plantago-aquatica L.	16	21	9	11	6	10	5	11	4	7	5	9	9	13	4	14	7	16	1	17	1	13	7	8
Alliaria petiolata (Bieb.) Cavara et Grande	10	16	3	7	6	9	5	10	5	10	7	11	5	9	6	14	3	14	6	12	2	15	4	7
Allium albidum Fisch.	3	10	4	7	6	12	7	12	10	13	2	8	4	7	8	9	10	12	7	15	8	9	7	9
Allium angulosum L.	8	18	4	9	7	11	5	15	4	7	1	7	4	8	6	10	9	14	6	15	5	10	7	8
Allium auctum Omelez.	8	15	3	6	6	11	4	10	7	10	4	9	5	9	8	11	10	13	7	9	9	10	4	6
Allium decipiens Fisch. ex Schult. et Schult. fil.	4	11	6	10	7	12	6	14	8	10	2	6	3	7	9	11	5	11	10	12	8	9	6	9
Allium erubescens C. Koch	5	11	4	9	7	12	6	11	8	12	3	9	4	7	8	12	10	12	7	8	8	9	7	9
Allium firmotunicatum Fomin	4	12	4	9	7	12	6	12	7	11	2	5	4	7	9	11	5	11	9	15	8	10	8	9
Allium flavescens Bess.	2	12	3	7	6	12	7	11	8	12	2	8	4	7	6	11	7	12	9	16	6	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	ReA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Allium guttatum</i> Stev.	5	12	7	11	5	12	5	14	7	9	1	7	3	6	8	12	10	12	9	12	9	10	6	9
<i>Allium inaequale</i> Janka	6	10	4	9	5	13	7	14	8	11	2	6	3	7	8	11	9	11	9	16	7	9	7	9
<i>Allium jaiilae</i> Ved.	5	11	4	9	7	11	5	11	9	12	3	7	4	8	7	8	12	13	7	8	8	9	7	9
<i>Allium lineare</i> L.	4	10	6	10	7	12	7	13	7	11	2	7	4	8	7	11	11	17	10	17	5	8	7	9
<i>Allium marschallianum</i> Ved.	5	13	4	7	7	12	5	11	9	12	1	8	4	9	10	11	8	17	7	8	9	10	7	9
<i>Allium montanum</i> F.W.Schmidt	6	13	4	7	3	11	3	10	2	11	3	9	3	6	7	12	10	14	6	17	2	11	7	9
<i>Allium moschatum</i> L.	6	13	3	7	7	12	7	11	9	12	1	7	4	9	11	13	8	17	6	13	9	12	7	9
<i>Allium obliquum</i> L.	3	10	4	9	5	10	7	10	11	13	2	7	4	7	7	11	10	17	9	17	1	9	8	9
<i>Allium oleraceum</i> L.	6	12	5	11	5	10	5	11	5	10	3	7	3	8	5	11	11	16	3	12	6	12	6	8
<i>Allium paczoskianum</i> Tuzs.	3	10	4	9	7	12	6	12	7	11	2	8	4	7	8	12	10	13	8	14	7	12	7	9
<i>Allium paniculatum</i> L.	2	12	4	9	7	12	8	15	6	10	3	9	3	7	6	13	5	14	6	14	6	13	7	9
<i>Allium podolicum</i> (Aschers. et Graebn.) Blocki ex Racib.	4	12	4	9	7	10	6	11	7	10	3	7	3	7	8	9	12	13	8	9	9	9	7	9
<i>Allium praescissum</i> Reichenb.	9	16	6	9	7	12	9	15	5	9	3	9	4	9	7	10	9	12	7	17	8	12	7	9
<i>Allium pseudopulchellum</i> Omelcz.	3	10	4	9	5	11	7	11	8	11	2	7	4	7	9	11	9	11	10	11	9	9	7	9
<i>Allium pulchellum</i> G. Don fil.	3	10	4	9	7	12	6	12	6	9	2	8	5	10	8	11	10	13	8	14	7	12	7	9
<i>Allium regelianum</i> A.Beck. ex Iljin	5	14	6	10	8	13	8	17	7	10	3	7	5	8	9	11	8	11	9	13	8	9	7	9
<i>Allium rotundum</i> L.	5	11	4	9	7	11	6	11	9	11	3	7	4	8	8	14	6	14	3	14	9	13	7	9
<i>Allium rupestre</i> Stev.	6	12	4	7	7	12	5	11	9	12	3	7	4	8	9	11	9	11	7	15	9	10	7	9
<i>Allium schoenoprassum</i> L.s. ampl.	9	19	4	9	5	10	5	13	5	9	1	5	8	11	2	13	13	18	2	10	1	9	7	9
<i>Allium scorodoprassum</i> L.	10	16	4	9	7	10	6	11	5	10	5	10	4	7	6	11	12	16	3	11	9	11	5	9
<i>Allium scythicum</i> Zoz	10	15	6	10	8	12	9	15	6	9	4	9	6	9	10	11	10	11	10	11	9	9	7	9
<i>Allium sphaerocephalon</i> L.	5	12	4	9	7	11	6	10	8	11	1	5	3	6	7	13	9	15	6	14	7	13	8	9
<i>Allium strictum</i> Schrad.	7	13	3	6	5	9	7	10	9	13	1	7	3	6	4	9	10	14	7	17	1	9	7	9



Allium ursinum L.	9	15	2	7	7	11	6	9	4	4	7	6	10	8	11	6	11	11	18	1	11	8	12	1	4
Allium victorialis L.	8	15	4	7	6	12	4	8	7	10	3	8	4	4	7	8	9	11	17	5	9	2	10	7	8
Allium vineale L.	8	13	4	9	6	9	5	10	5	10	3	8	4	4	7	6	12	11	15	2	11	9	12	5	7
Allium waldsteinii G.Don fil.	5	12	4	9	7	11	5	11	9	10	3	7	4	4	7	7	11	9	13	8	13	7	10	7	9
Alnus glutinosa (L.) Gaertn.	13	21	1	5	5	9	3	11	2	5	5	9	8	8	11	4	14	10	17	1	13	4	12	5	7
Alnus incana (L.) Moench	10	19	1	5	5	9	2	8	2	5	5	9	8	8	11	4	9	14	20	2	12	5	10	6	7
Alopecurus aequalis Sobol.	14	20	8	11	5	10	5	11	3	7	6	11	7	7	10	3	14	1	15	3	13	3	14	7	9
Alopecurus arundinaceus Poir.	6	20	9	11	6	13	5	16	4	5	4	8	9	9	11	4	14	6	14	6	17	1	12	7	9
Alopecurus geniculatus L.	13	20	9	11	7	10	3	12	4	7	5	10	7	7	10	4	19	11	18	6	11	5	12	7	9
Alopecurus myosuroides Huds.	7	20	9	11	7	11	6	11	4	9	5	10	6	6	10	6	14	6	15	3	17	8	12	6	8
Alopecurus pratensis L.	10	19	6	9	5	9	4	9	4	7	6	10	8	8	12	3	12	10	17	1	17	2	11	6	8
Alopecurus vaginatus (Willd.) Pall.ex Kunth	5	11	4	6	7	11	5	12	9	12	2	8	4	4	7	7	11	6	13	6	11	9	13	7	9
Althaea armeniaca Ten.	6	16	7	11	10	13	10	17	4	12	2	9	4	4	7	10	13	3	10	10	17	6	11	7	9
Althaea cannabina L.	5	13	4	9	7	12	5	12	5	13	3	8	5	5	7	9	14	5	11	8	17	8	15	4	9
Althaea hirsuta L.	5	14	5	9	8	11	6	11	5	13	3	7	4	4	7	7	14	3	15	3	15	8	13	7	9
Althaea narbonensis Pourr.	5	13	4	9	7	12	5	12	5	13	3	8	5	5	7	8	14	8	13	5	10	9	13	5	9
Althaea officinalis L.	8	16	7	11	7	13	7	5	3	8	5	9	5	5	10	7	11	8	14	1	17	6	12	6	9
Alyssum borzaeanum E.I. Nyarady	3	9	7	11	9	12	3	15	2	7	1	3	2	2	6	10	12	10	12	8	10	9	11	8	9
Alyssum calycinum L.	4	12	4	9	5	10	3	12	4	9	1	4	3	3	7	7	15	1	14	5	17	9	15	7	9
Alyssum calycocarpum Rupr.	4	8	5	9	9	12	5	11	9	13	1	4	4	4	6	11	12	9	10	8	9	9	11	7	9
Alyssum desertorum Stapf.	1	11	6	11	6	10	4	11	5	10	1	5	3	3	7	6	14	8	15	3	13	7	12	7	9
Alyssum gmelinii Jord.	5	11	7	10	6	11	3	11	4	9	1	3	3	3	6	7	12	10	14	6	12	7	12	7	9
Alyssum gymnopodium P. Smirn.	4	8	5	9	9	12	7	12	11	13	1	3	4	4	6	9	10	10	11	11	12	7	8	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Alyssum hirsutum</i> Bieb.	3	10	4	9	6	11	7	11	6	11	1	3	3	7	9	12	7	11	11	17	9	11	7	9
<i>Alyssum kotovii</i> Ijinskaja	3	9	3	7	7	11	4	10	6	12	1	4	3	7	11	12	10	11	8	10	9	10	7	9
<i>Alyssum lenense</i> Adam	4	11	4	9	9	11	7	12	11	12	1	3	5	7	4	9	5	12	11	17	3	8	8	9
<i>Alyssum longistylum</i> (N.Busch) Grossh.	3	9	3	7	7	11	3	11	10	13	1	3	3	7	10	12	8	11	9	12	9	10	7	9
<i>Alyssum medium</i> Ijinskaja	5	7	6	9	9	11	7	10	11	12	2	4	3	5	8	9	12	13	8	10	8	8	8	9
<i>Alyssum minutum</i> Schlecht. ex DC.	4	10	6	11	5	12	4	14	5	10	1	4	3	7	8	14	7	13	8	13	9	14	7	9
<i>Alyssum murale</i> Waldst. et Kit.	3	9	6	9	5	11	3	11	4	8	1	4	4	7	8	13	3	17	10	17	8	13	7	9
<i>Alyssum parviflorum</i> Bieb.	3	12	6	10	7	10	5	12	8	11	1	5	3	7	8	13	1	10	9	17	6	13		
<i>Alyssum rostratum</i> Stev.	4	10	5	9	6	11	5	11	3	11	1	4	3	7	8	12	10	13	9	12	8	11	7	9
<i>Alyssum savranicum</i> Andrzej. ex Bess.	4	9	8	11	8	11	2	7	6	10	1	3	4	7	9	10	10	11	10	11	8	9	8	9
<i>Alyssum snymaeum</i> C .A.Mey.	4	9	7	11	8	11	6	11	7	11	2	4	3	7	11	13	8	10	7	9	10	12	8	9
<i>Alyssum subalpinum</i> Pall. ex M.Bieb.	3	9	3	7	7	11	5	11	10	13	1	4	3	7	11	13	10	11	8	11	10	12	7	9
<i>Alyssum tortuosum</i> Waldst. et Kit.	2	8	3	7	7	11	3	8	7	13	1	5	3	7	9	12	1	12	9	17	6	11	7	9
<i>Alyssum trichostachyum</i> Rupr.	5	9	5	9	7	12	5	11	10	13	1	4	3	7	5	8	12	17	5	7	5	9	7	9
<i>Alyssum umbellatum</i> Desv.	3	9	7	11	8	11	6	13	5	11	1	4	3	7	10	14	4	10	7	12	10	12	7	9
<i>Amaranthus albus</i> L.	5	13	3	11	5	10	5	13	4	7	5	10	5	7	8	14	3	20	1	17	7	15	8	9
<i>Amaranthus blitoides</i> S. Wats.	8	13	3	8	5	10	5	10	5	9	7	11	5	7	8	16	3	20	1	17	7	15	8	9
<i>Amaranthus graecizans</i> L.	8	13	3	7	7	10	5	13	5	9	5	10	5	7	8	14	5	15	1	17	7	13	8	9
<i>Amaranthus hybridus</i> L.	8	13	3	7	6	10	4	9	5	9	5	10	5	7	6	15	10	20	1	11	10	15	8	9
<i>Amaranthus lividus</i> L.	8	14	3	7	7	11	5	13	5	9	7	10	5	7	8	17	3	15	1	9	7	15	7	9
<i>Amaranthus retroflexus</i> L.	8	13	3	7	5	10	5	10	5	9	7	11	5	7	6	16	3	23	1	17	2	15	7	9

Ambrosia artemisiifolia L.	6	13	5	9	5	11	5	12	2	9	4	11	5	7	7	16	3	17	1	17	5	15	7	9
Amelanchier ovalis Medik.	6	12	5	9	7	11	7	10	8	11	3	7	4	7	8	12	9	15	4	11	8	11	5	9
Amorpha fruticosa L.	7	16	7	11	6	11	3	10	4	9	2	7	5	11	8	12	7	13	5	9			6	9
Amygdalus nana L.	4	11	4	7	7	12	6	11	8	11	3	8	4	7	8	11	8	14	7	14	6	10	7	9
Anacamptis pyramidalis (L.)Rich.	5	13	3	6	7	12	5	10	8	10	1	7	5	7	7	15	5	16	3	12	8	13	6	8
Anagallis arvensis L.	6	14	5	8	7	10	5	11	6	10	5	11	4	8	5	16	1	14	1	17	8	15	6	9
Anagallis foemina Mill.	5	13	5	8	7	11	5	12	6	10	5	11	4	8	7	14	9	18	1	9	10	13	8	9
Anchusa gmelinii Ledeb.	5	12	9	11	5	12	5	12	8	11	1	7	3	6	8	10	9	13	9	11	8	9	7	9
Anchusa italica Retz.	7	14	4	10	6	12	7	12	6	10	2	7	4	7	9	14	5	12	7	17	8	13	7	9
Anchusa leptophylla Roem. et Schult.	6	12	4	8	6	12	6	11	8	11	3	9	4	7	10	12	8	11	6	11	9	11	7	9
Anchusa ochroleuca M.Bieb	5	12	9	11	5	12	5	12	5	11	1	6	3	6	8	10	9	12	10	14	8	10	7	9
Anchusa officinalis L.	6	12	4	9	5	10	5	10	5	9	3	9	4	7	6	12	10	14	6	9	6	11	7	9
Anchusa popovii (Gusul.) Dobrocz.	7	13	6	10	5	10	4	9	7	10	3	7	3	6	10	13	5	11	10	12	8	10	7	9
Anchusa procera Bess.	5	14	4	9	5	9	4	9	5	9	2	9	4	7	8	11	10	14	7	12	8	10	6	9
Andrachne telephoides L.	5	9	4	9	7	11	7	14	9	10	4	5	4	7	11	14	8	14	6	10	10	11	8	9
Andromeda polifolia L.	14	19	1	3	1	3	1	3	1	4	1	4	10	12	1	9	12	16	3	17	2	17	6	9
Androsace elongata L.	4	10	6	10	7	11	6	10	4	9	1	7	5	8	7	11	9	13	7	13	7	10	7	8
Androsace koso-poljanski Ovcz.	3	6	3	8	10	12	9	13	9	13	2	7	4	6	9	10	10	11	10	11	8	9	8	9
Androsace maxima L.	4	10	7	10	7	12	6	12	8	12	3	7	4	6	6	14	6	13	6	16	4	12	7	9
Androsace septentrionale L.	5	13	9	11	3	9	1	5	3	7	1	5	4	6	3	13	10	14	3	17	3	10	7	9
Androsace taurica Ovcz.	5	9	3	8	7	13	5	12	10	13	1	4	4	6	7	8	11	13	6	7	9	10	8	9
Anemone narcissiflora L.	7	15	3	7	7	11	3	9	7	11	3	7	5	9	2	12	5	15	2	17	1	10	7	9
Anemone nemorosa L.	8	17	2	7	5	17	3	10	3	7	3	11	5	11	5	11	11	20	1	10	7	11	3	8
Anemone ranunculoides L.	9	17	3	7	7	11	5	9	4	9	5	10	5	9	5	11	11	14	5	12	6	11	4	7
Anemone sylvestris L.	5	13	3	9	6	11	4	11	6	10	2	7	5	7	5	11	11	14	4	17	1	10	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Angelica sylvestris</i> L.	11	18	3	9	5	9	3	9	5	8	3	9	8	11	3	11	11	18	1	15	4	11	5	8
<i>Anisantha madritensis</i> (L.) Nevski	2	10	7	10	7	11	5	12	5	10	2	5	4	7	11	14	3	14	1	17	9	13	7	9
<i>Anisantha sterilis</i> (L.) Nevski	3	14	7	11	5	11	5	12	5	10	3	9	3	6	8	13	3	15	6	17	9	13	7	9
<i>Anisantha tectorum</i> (L.) Nevski	2	12	7	11	7	12	5	14	2	9	3	7	3	7	6	14	6	15	3	17	7	13	8	9
<i>Anogramma leptophylla</i> (L.) Link	3	8	3	6	3	7	3	9	2	5	4	8	3	6	8	17	1	14	5	8	10	15	3	7
<i>Antennaria carpatica</i> (Wahlenb.) Bluff et Fingerh.	9	15	3	6	3	7	1	5	4	10	1	5	4	7	3	4	16	18	3	7	7	8	7	9
<i>Antennaria dioica</i> (L.) Gaertn.	7	14	3	9	3	9	1	9	2	10	1	6	3	7	2	13	12	18	1	17	1	12	6	9
<i>Anthemis arvensis</i> L.	5	13	4	9	3	7	5	10	3	9	4	9	4	7	5	13	12	16	5	11	7	13	6	9
<i>Anthemis austriaca</i> Jacq.	5	13	4	9	7	11	5	10	3	9	3	8	4	7	8	12	7	14	7	12	9	12	7	8
<i>Anthemis cotula</i> L.	3	13	4	9	5	10	5	11	5	9	3	9	4	7	7	9	6	16	3	12	7	12	6	8
<i>Anthemis cretacea</i> Zuefir.	6	13	4	7	5	10	7	12	11	13	2	8	4	7	10	12	10	11	8	9	9	11	7	9
<i>Anthemis dubia</i> Stev.	3	11	4	7	7	12	7	12	9	11	1	6	4	7	10	12	10	11	8	9	10	11	7	9
<i>Anthemis jaiensis</i> Zefir.	6	11	4	7	7	10	5	12	10	12	3	8	4	7	8	9	12	13	7	8	9	9	7	9
<i>Anthemis monantha</i> Willd.	6	11	4	7	7	10	5	12	9	12	3	8	4	7	8	9	11	13	7	9	9	9	7	9
<i>Anthemis ruthenica</i> Bieb.	4	13	4	9	5	12	7	13	9	11	3	8	4	7	7	11	10	13	6	12	8	12	6	9
<i>Anthemis sterilis</i> Stev.	2	10	4	7	7	12	8	12	6	11	1	5	4	7	11	12	10	11	8	9	9	10	7	9
<i>Anthemis tinctoria</i> L.	5	11	5	9	5	10	5	11	8	12	3	7	3	7	5	13	8	15	4	17	5	13	7	8
<i>Anthemis zephyrovii</i> Dobrocz.	5	11	5	9	7	12	6	11	8	11	1	8	4	7	9	12	10	12	8	11	9	10	6	9
<i>Anthericum liliago</i> L.	5	12	4	8	5	9	5	10	9	12	1	6	3	7	7	11	12	14	6	10	9	11	7	9
<i>Anthericum ramosum</i> L.	5	14	5	9	7	11	4	10	8	12	2	7	3	7	7	11	12	14	4	11	8	11	6	9
<i>Anthoxanthum alpinum</i> A. et D. Love	8	16			5	7	3	10			3	7			6	8			6	8	9	9	7	8
<i>Anthoxanthum odoratum</i> L.	8	17	5	10	5	8	2	7	2	7	3	9	4	8	4	14	9	18	1	14	3	13	7	8

Anthriscus caucalis Bieb.	8	15	3	7	6	9			4	6	3	10	5	9	7	14	9	15	3	12	9	13	7	9
Anthriscus longirostris Bertol.	7	13	4	7	7	10	5	10	4	8	3	9	5	9	8	13	7	14	3	9	7	10	5	8
Anthriscus nitida (Wahlenb.) Hazslinszky	9	15	3	7	7	11	5	9	4	8	6	10	5	9	7	11	12	14	7	10	8	10	3	5
Anthriscus sylvestris (L.) Hoffm.	9	16	3	7	7	11	5	9	4	8	7	11	5	10	3	10	10	17	1	13	5	15	5	8
Anthyllis alpestris Reichenb.	8	13	4	7	8	10	4	8	5	10	2	6	4	8	6	8	14	16	5	7	8	9	7	8
Anthyllis biebersteiniana Popl.	9	11	4	7	7	12	5	11	9	12	1	8	4	7	7	8	12	13	7	8	9	9	7	8
Anthyllis carpatica Pant.	8	14	4	7	7	10	5	9	5	9	2	6	5	8	6	8	14	16	5	7	8	9	7	8
Anthyllis macrocephala Wend.	7	13	4	7	6	11	5	11	6	12	3	6	4	7	7	13	9	17	1	11	6	10	6	9
Anthyllis schiwereckii (DC.) Blocki	7	13	4	7	8	11	5	11	5	12	2	5	4	7	8	9	7	9	8	9	9	9	6	9
Anthyllis taurica Juz.	6	11	4	7	7	12	6	11	9	12	2	5	3	7	9	12	9	11	7	8	9	9	7	9
Antirrhinum orontium L.	8	15	6	9	4	7	6	10	8	12	4	9	3	7	11	13			2	16	9	15	6	8
Apera interrupta (L.) Beauv.	4	12	8	10	6	11	7	11	4	9	2	6	4	7	7	12	9	14	5	9	9	11	7	9
Apera maritima Klokov	4	12	9	11	5	11	8	15	3	8	2	6	3	7	10	12	9	10	6	10	9	10	7	9
Apera spica-venti (L.) Beauv.	5	15	7	11	4	11	5	14	2	6	2	7	3	6	5	12	11	15	3	16	5	11	5	8
Aphanes arvensis L.	8	15	5	9	6	10	5	10	5	10	3	8	5	8	6	14	6	15	2	12	9	13	5	8
Apium graveolens L.	11	17	3	7	7	11			4	7	5	9	7	11	9	13	6	14	2	17	9	13	7	9
Aposperis foetida (L.) Less.	8	15	4	6	6	9	3	10	7	10	3	8	5	8	8	11	12	14	7	10	8	11	3	5
Aquilegia nigricans Baumg.	8	15	4	8	3	6	1	5	7	10	1	4	4	7	5	8	12	17	6	11	7	9	6	9
Aquilegia transilvanica Schur	8	15	4	8	3	6	1	4	7	10	1	4	4	7	4	6	15	17	6	7	7	8	7	9
Aquilegia vulgaris L.	5	14	3	9	7	11	3	6	7	11	3	7	5	8	6	13	10	15	4	10	7	12	4	9
Arabis alpestris thaliana (L.) Heynh.	4	12	6	11	4	10	7	10	3	10	1	5	3	8	5	15	8	20	1	16	5	13	5	9
Arabis alpina L.	10	14	3	7	5	8	5	7	8	13	1	4	5	9	2	6	16	20	1	6	1	7	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Arabis caucasica</i> Schlecht.	3	8	3	7	8	11	3	10	11	13	1	4	3	6	10	14	1	11	9	17	9	13	7	9
<i>Arabis gerardii</i> (Bess.) Koch	11	17	3	7	6	9	5	8	3	8	3	7	8	11	7	12	11	14	7	11	5	11	5	8
<i>Arabis hirsuta</i> (L.) Scop.	7	14	5	8	6	9	5	9	5	10	2	7	4	7	7	9	12	16	2	9	8	11	6	9
<i>Arabis hornungiana</i> Schur	9	15	5	8	8	10	1	7	8	13	1	4	4	7	4	6	16	18	5	7	6	8	7	9
<i>Arabis pendula</i> L.	8	13	4	7	6	9	4	9	3	7	2	7	5	7	6	10	10	13	8	17	4	10	5	9
<i>Arabis recta</i> Vill.	3	12	4	10	7	11	5	10	8	11	4	7	3	7	9	14	1	13	7	17	7	14	6	9
<i>Arabis sagittata</i> (Bertol.) DC.	5	13	4	9	7	11	5	9	5	10	2	7	4	7	4	12	7	14	4	17	7	11	6	9
<i>Arabis turrita</i> L.	6	12	4	8	6	11	5	11	7	11	2	5	5	7	8	14	5	14	7	12	10	13	5	8
<i>Arabis verna</i> (L.) W. T. Aiton	5	10	6	9	7	10	5	11	5	10	1	4	4	7	10	14	8	11	6	11	10	13	6	9
<i>Arbutus andrachne</i> L.	4	9	5	9	7	13	5	11	8	13	3	7	3	7	11	14	8	12	6	12	7	12	6	9
<i>Archangelica officinalis</i> Hoffm.	11	19	1	4	6	10	5	10	3	8	7	11	7	11	3	11	10	18	1	17	5	10	6	8
<i>Arctium lappa</i> L.	8	16	1	6	7	10	5	11	4	8	7	11	7	10	6	14	8	15	4	17	4	10	6	9
<i>Arctium minus</i> (Hill) Bernh.	8	16	1	6	7	11	5	10	4	8	7	11	7	10	6	11	11	17	7	11	5	13	6	9
<i>Arctium nemorosum</i> Lej.	10	16	1	4	7	11	5	10	4	8	7	11	7	10	6	11	12	15	5	11	5	11	4	8
<i>Arctium tomentosum</i> Mill.	8	16	1	6	7	12	7	11	4	8	7	11	7	10	6	12	9	14	3	11	5	11	7	8
<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	4	11	6	9	1	7	1	5	3	8	1	3	3	6	4	8	12	18	1	17	1	15	6	9
<i>Arenaria leptoclados</i> (Reichenb.) Guss.	3	12	5	10	3	11	6	9	5	10	3	7	2	7	7	15	7	14	3	10	9	12	7	9
<i>Arenaria serpyllifolia</i> L.	3	13	4	11	3	11	5	10	3	7	3	9	1	6	5	14	10	18	5	13	5	10	7	9
<i>Arenaria uralensis</i> Pall. ex Spreng.	3	12	5	10	3	11	3	10	5	10	3	7	2	5	5	14	9	18	2	14	3	12	8	9
<i>Aristolochia clematitis</i> L.	8	13	8	11	7	11	5	10	4	9	3	9	4	7	7	11	10	15	3	13	6	11	5	8
<i>Armeria elongata</i> (Hoffm.) Koch.	6	14	8	10	4	7	3	6	3	8	1	5	4	8	6	9	3	15	4	7	3	10	7	9
<i>Armeria pocutica</i> Pawl.	11	14	8	10	7	10	3	7	7	10	3	6	5	8	9	10	10	11	9	10	10	11	7	9

Armoracia rusticana Gaertn., Mey. et Scherb.	9	16	3	7	7	10	6	11	4	10	7	11	6	12	6	12	10	14	2	11	5	11	5	9
Arnica montana L.	8	15	4	7	3	7	3	9	5	9	3	5	5	8	6	11	13	16	7	9	8	11	7	9
Amoseris minima (L.) Schweigg. et Koerte	7	13	7	11	3	7	3	7	3	6	2	7	3	6	7	12	13	15	3	9	9	12	7	9
Arrhenatherum elatius (L.) J. et C. Presl	8	15	4	7	6	10	5	9	4	8	5	10	6	8	5	14	10	18	1	11	7	13	7	8
Artemisia abrotanum L.	4	19	4	7	5	11	5	16	4	8	3	9	4	7	4	13	6	14	6	17	6	10	7	9
Artemisia absinthium L.	5	15	3	9	7	11	6	10	1	9	6	10	4	7	4	14	9	16	6	17	5	13	7	9
Artemisia annua L.	3	13	6	9	5	11	6	10	2	6	2	7	4	7	8	12	8	13	3	8	6	10	7	9
Artemisia armeniaca Lam.	3	12	3	6	7	12	6	12	8	11	3	5	4	7	7	11	8	13	9	15	6	9	7	9
Artemisia austriaca Jacq.	3	13	3	10	7	12	5	16	7	12	3	7	5	8	4	13	7	13	6	17	5	10	8	9
Artemisia campestris L.	4	14	4	11	5	8	5	12	3	12	2	7	3	7	6	11	7	14	4	16	4	11	7	9
Artemisia dniproica Klokov	3	15	9	11	4	10	2	15	1	9	1	5	3	6	5	12	12	14	8	10	8	9	7	9
Artemisia dracunculus L.	4	14	6	9	5	11	5	15	3	8	5	10	5	8	6	11	5	13	4	8	3	9	7	9
Artemisia hololeuca Bieb. ex Bess.	5	12	3	7	9	13	9	12	11	13	3	7	4	7	8	10	10	12	10	12	8	9	8	9
Artemisia lanulosa Klokov	3	12	3	6	9	12	9	12	10	13	3	7	4	7	8	11	10	11	7	10	9	10	8	9
Artemisia lerchiana Web. ex Stechn.	3	7	7	11	10	14	11	16	8	11	1	5	4	9	8	10	8	11	12	15	7	10	8	9
Artemisia marschalliana Spreng.	5	12	3	11	5	11	6	12	3	11	1	7	3	7	8	11	10	13	9	15	6	10	7	9
Artemisia nutans Willd.	4	12	2	5	7	13	6	13	11	13	1	9	3	7	8	10	9	11	10	12	8	8	9	9
Artemisia pontica L.	5	14	6	9	7	11	6	11	9	12	3	8	3	6	6	11	8	13	7	15	6	10	7	9
Artemisia salsoloides Willd.	4	13	5	8	10	14	11	15	9	13	2	8	4	7	9	10	10	12	10	12	8	8	8	9
Artemisia santonica L.	5	17	9	11	7	13	10	18	11	13	3	11	4	9	7	10	10	13	9	13	7	11	8	9
Artemisia scoparia Waldst. et Kit.	3	13	3	9	5	11	7	13	5	10	2	9	4	7	4	13	3	14	6	17	3	10	7	9
Artemisia taurica Willd.	5	9	7	10	10	14	10	16	7	10	1	8	3	7	9	11	9	11	10	11	9	10	7	9
Artemisia vulgaris L.	8	15	3	9	5	11	4	11	4	9	4	10	4	7	3	13	5	18	2	17	5	11	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	RcI	RcA	SII	SIA	CaI	CaA	NI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Arum albispathum</i> Stev. ex Ledeb.	10	17	2	5	8	10	7	10	7	10	7	11	6	9	8	12	10	12	6	10	8	11	3	5
<i>Arum alpinum</i> Schott et Kotschy	10	16	2	5	6	10	6	10	5	10	7	10	6	9	7	8	12	14	6	7	8	11	2	4
<i>Arum besseranum</i> Schott	10	16	2	5	7	11	7	10	6	11	7	11	6	9	8	9	12	16	7	10	9	10	3	5
<i>Arum elongatum</i> Stev.	10	16	2	5	6	10	7	10	7	10	7	11	6	9	9	12	6	12	7	11	9	11	3	6
<i>Arum orientale</i> Bieb.	10	16	2	5	8	10	7	10	7	10	7	11	6	9	10	13	6	12	6	12	8	12	3	5
<i>Aruncus vulgaris</i> Rafin.	11	16	2	6	6	9	5	9	5	10	5	10	5	10	3	14	11	14	8	17	1	11	3	5
<i>Asarum europaeum</i> L.	9	15	5	7	7	11	3	8	5	9	4	9	5	8	6	12	12	14	3	13	6	11	3	5
<i>Asclepias syriaca</i> L.	8	15	8	11	5	9	3	9	5	10	3	7	3	7	8	12	9	14	4	12	8	12	7	9
<i>Asparagus levinae</i> Klokov	5	13	9	11	5	12	5	17	4	6	1	5	3	8	10	14	6	14	5	11	5	8	8	9
<i>Asparagus officinalis</i> L.	6	12	5	9	7	10	5	10	3	10	3	8	4	9	4	14	6	15	5	17	6	13	6	9
<i>Asparagus pallasii</i> Miscz.	5	15	8	11	11	14	14	17	4	8	3	7	3	8	7	11	5	11	8	17	4	10	8	9
<i>Asparagus polyphyllus</i> Stev.	5	13	3	7	7	12	6	15	7	10	1	8	3	7	7	14	6	12	9	15	5	9	7	9
<i>Asparagus tenuifolius</i> Lat.	4	12	3	7	7	10	5	10	5	11	3	7	5	8	11	14	8	11	6	11	9	12	6	9
<i>Asparagus verticillatus</i> L.	6	14	4	7	6	12	5	12	6	11	2	8	4	8	10	12	5	11	7	14	8	10	6	9
<i>Asperugo procumbens</i> L.	5	13	4	8	7	11	5	9	5	9	7	11	4	8	4	13	4	17	3	11	3	12	6	8
<i>Asperula arvensis</i> L.	6	13	3	7	9	12	7	11	7	9	3	7	4	7	8	13	5	14	4	15	7	13	6	9
<i>Asperula caespitans</i> Juz.	3	12	3	6	7	12	5	11	11	13	2	8	3	6	7	9	11	13	7	7	8	9	8	9
<i>Asperula cynanchica</i> L.	4	12	3	7	7	11	7	11	10	13	2	7	4	7	6	12	10	13	6	14	7	9	6	9
<i>Asperula graveolens</i> Bieb. ex Schult. et Schult. fil.	5	12	8	11	5	12	4	10	5	9	1	6	3	7	8	11	9	12	9	12	8	9	8	9
<i>Asperula propinqua</i> Pobed.	8	15	4	6	7	11	5	10	8	10	5	8	5	8	9	10	10	12	7	9	8	9	4	7
<i>Asperula rumelica</i> Boiss.	6	13	8	11	5	11	5	11	5	10	3	8	4	7	8	11	9	12	9	11	8	9	8	9
<i>Asperula setulosa</i> Boiss.	5	12	8	11	5	12	4	13	4	7	1	6	3	6	10	11	9	11	9	11	8	10	8	9
<i>Asperula stevenii</i> V.Krecz.	6	10	7	11	7	13	5	14	10	13	1	8	3	6	9	11	9	12	8	11	9	9	8	9
<i>Asperula supina</i> Bieb.	5	13	3	6	7	13	5	12	10	13	2	8	3	6	11	12	9	10	9	9	10	10	8	9



Asperula taurica Pacz.	8	15	2	5	7	7	11	5	12	11	13	2	7	3	6	10	12	11	13	8	11	9	11	8	9
Asperula tephrocarpa Czern. ex M.Pop.et Chrshan.	4	13	2	5	7	13	13	5	12	9	13	3	8	3	6	9	10	10	12	9	12	8	8	8	9
Asperula vestita V.Krecz.	5	11	7	11	7	12	10	6	12	10	13	1	8	3	6	10	11	9	10	9	9	9	9	8	9
Asphodeline lutea (L.) Reichenb.	5	12	3	6	7	12	9	5	12	9	13	1	8	3	6	9	14	8	11	7	8	9	10	6	9
Asphodeline taurica (Pall. ex Bieb.) Kunth	5	11	3	6	7	12	10	6	12	10	13	1	8	3	6	9	12	9	11	7	9	9	11	7	9
Asplenium adiantum-nigrum L.	5	13	2	5	3	7	4	4	11	4	7	5	9	3	6	7	9	1	20	3	12	8	13	4	8
Asplenium billotii F. Schultz	8	15	2	5	3	7	4	4	11	3	7	5	9	3	6	7	10			1	8	10	12	4	6
Asplenium cuneifolium Viv.	9	15	2	5	7	11	5	5	9	7	11	4	9	3	6	8	9	13	15	5	9	9	12	4	7
Asplenium heuffleri Reichardt	3	10	2	5	2	7				2	6	3	7	3	6	6	10	10	14	6	11	9	10	5	8
Asplenium ruta-muraria L.	5	13	2	5	7	11	5	5	7	10	13	1	5	2	6	6	12	3	23	1	17	3	12	7	9
Asplenium septentrionale (L.) Hoffm.	5	13	2	5	1	6	4	4	7	1	5	2	7	3	6	4	12	8	16	3	17	6	11	6	9
Asplenium trichomanes L.	7	15	2	5	3	13	4	4	7	1	12	3	7	3	6	5	17	3	20	1	14	6	15	3	9
Asplenium viride Huds.	8	15	2	5	6	11	5	5	7	9	12	3	7	2	6	4	11	3	20	1	16	4	11	4	9
Aster alpinus L.	5	13	3	6	6	10	4	4	10	7	12	1	5	3	7	3	7	9	16	1	16	4	11	7	9
Aster amelloides Bess.	6	12	3	6	7	11	5	5	9	8	11	3	8	4	8	9	12	10	13	8	12	8	10	7	9
Aster amellus L.	5	13	3	6	8	12	5	5	9	8	11	1	7	4	8	6	12	10	14	1	14	6	12	7	9
Aster novi-belgii L.	9	17	5	9	6	11	5	5	13	6	9	7	11	6	11	7	13	13	17	1	9	9	11	8	9
Aster salignus Willd.	9	15	5	8	7	11	5	5	13	7	9	7	11	6	10	9	13	11	14	5	12	7	11	6	8
Asterionon linum-stellatum (L.) Duby	3	7	5	7	9	12	7	7	11	9	12	3	6	4	6	10	15	3	10	9	17	10	13	8	9
Astragalus albicaulis DC.	5	12	3	6	7	12	5	5	12	10	13	2	8	4	7	8	10	9	12	11	13	7	9	8	9
Astragalus albidus Waldst. et Kit.	3	10	3	6	7	11	7	7	11	10	13	2	7	4	7	9	11	12	14	8	11	9	10	8	9
Astragalus arenarius L.	6	14	8	11	1	6	3	3	7	2	9	2	6	3	6	6	8	12	14	5	12	6	10	7	9
Astragalus asper Jacq.	4	8	3	6	9	11	9	9	12	11	13	1	5	4	7	8	11	8	12	8	13	7	10	8	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Astragalus austriacus</i> Jacq.	4	13	3	6	7	11	4	16	9	12	2	7	4	7	7	11	10	13	7	16	6	10	8	9
<i>Astragalus borysthenicus</i> Klokov	5	11	8	11	7	12	7	11	2	7	1	5	3	6	10	11	11	12	8	10	8	9	8	9
<i>Astragalus brachyceras</i> Ledeb.	5	13	7	11	7	12	6	12	9	11	3	6	3	7	8	12	3	11	10	17	5	12	7	9
<i>Astragalus cicur</i> L.	7	14	5	9	7	11	5	13	7	11	4	9	4	7	6	14	11	15	2	13	7	12	6	9
<i>Astragalus contortuplicatus</i> L.	7	16	8	11	9	13	10	16	4	7	1	5	3	6	8	15	3	12	7	17	6	10	8	9
<i>Astragalus corniculatus</i> Bieb.	5	11	6	11	7	12	6	11	8	13	3	7	4	7	9	11	10	11	9	11	9	9	8	9
<i>Astragalus cretophilus</i> Klokov	5	12	7	10	7	12	6	14	11	13	2	7	4	7	8	11	11	12	10	12	6	9	8	9
<i>Astragalus danicus</i> Retz.	5	14	4	7	7	12	4	13	6	11	1	5	4	8	5	9	10	15	2	17	1	11	6	9
<i>Astragalus dasyanthus</i> Pall.	5	11	5	8	7	12	5	12	7	11	3	6	5	8	8	11	10	12	9	13	7	9	7	9
<i>Astragalus dealbatus</i> Pall.	5	10	4	7	7	12	7	12	8	12	2	7	4	7	10	11	9	10	8	10	9	10	8	9
<i>Astragalus dolichophyllus</i> Pall.	4	10	3	6	7	12	5	11	6	10	1	5	3	7	9	11	9	11	12	16	6	9	8	9
<i>Astragalus exscapus</i> L.	5	11	7	10	7	12	7	12	8	12			4	7	8	13	12	14	10	12	10	13	8	9
<i>Astragalus gateiformis</i> L.	8	14	6	9	6	10	5	9	5	9	3	7	5	8	8	11	3	12	5	11	8	11	5	8
<i>Astragalus glycyphylloides</i> DC.	8	16	3	7	7	11	5	11	5	10	3	8	5	8	10	12	10	12	6	12	10	12	5	7
<i>Astragalus glycyphyllos</i> L.	9	14	3	7	7	10	5	10	5	9	3	8	5	8	6	12	11	16	3	12	6	12	5	7
<i>Astragalus henningii</i> (Stev.) Boriss.	5	10	7	9	8	11	7	13	10	13	2	6	4	7	9	11	8	11	10	14	6	9	8	9
<i>Astragalus krajinae</i> Domin	10	14	5	9	6	9	3	7	6	10	1	6	4	7	6	8	7	8	16	17	6	7	7	9
<i>Astragalus monspessulanus</i> L.	5	10	6	9	8	11	7	19	9	12	2	6	4	7	9	14	8	13	8	12	8	13	8	9
<i>Astragalus odessanus</i> Bess.	5	10	7	9	3	9	3	10	3	11	1	6	3	7	9	11	10	11	8	11	8	10	7	9
<i>Astragalus onobrychis</i> L.	2	13	5	8	7	11	6	10	6	11	1	7	4	7	6	12	9	15	2	13	5	12	6	9
<i>Astragalus oxyglottis</i> Stev. ex Bieb.	7	14	5	10	9	13	5	16	3	8	1	6	3	6	9	14	3	10	9	17	8	12	8	9

Astragalus pallescens Bieb.	5	11	3	6	7	12	6	11	7	11	2	6	4	7	9	11	10	12	9	8	9			
Astragalus ponticus Pall.	5	11	6	9	8	11	6	11	8	11	2	6	4	7	8	12	10	12	9	11	8	9		
Astragalus pubiflorus DC.	5	12	3	6	7	12	5	11	5	9	2	7	3	7	8	11	10	12	8	10	8	9		
Astragalus reduncus Pall.	4	9	6	10	8	11	9	15	9	11	2	6	5	8	9	11	9	14	8	10	8	9		
Astragalus rupifragus Pall.	4	9	3	6	8	10	7	12	7	11	1	5	4	7	8	11	10	14	6	9	8	9		
Astragalus sareptanus A. Beck.	4	9	7	9	8	10	7	12	7	11	1	5	4	7	8	11	10	14	6	9	8	9		
Astragalus setosulus Gontsch.	5	11	5	9	7	12	6	11	7	11	2	7	5	7	8	9	12	7	8	9	10	7	9	
Astragalus similis Boriss.	4	9	7	10	8	11	7	12	9	11	3	6	5	7	10	11	8	9	10	11	7	9		
Astragalus sinaicus Boiss.	6	12	4	7	7	12	5	13	9	11	1	5	3	7	11	14	5	10	9	10	13	7	9	
Astragalus striatellus Pall. ex Bieb.	6	12	4	7	7	12	6	11	9	12	2	6	4	7	10	14	5	10	7	12	8	11	7	9
Astragalus subuliformis DC.	5	12	3	6	7	12	7	11	9	13	2	6	4	7	10	11	10	11	8	9	10	10	8	9
Astragalus sulcatus L.	5	13	6	10	7	12	7	14	6	11	3	6	4	8	8	10	7	16	4	10	7	9	9	
Astragalus suprapilosus Gontsch.	3	8	5	8	8	11	9	14	8	11	1	6	3	7	10	11	8	9	10	10	8	9	9	
Astragalus tanaiticus C. Koch	3	9	8	9	8	10	7	12	9	10	1	5	4	7	9	11	12	10	12	6	9	8	9	
Astragalus tarchankuiticus Boriss.	5	10	7	10	7	12	7	14	8	12	2	6	4	7	11	11	7	10	10	10	8	9	9	
Astragalus tauricus Pall.	5	9	3	6	7	12	7	14	10	12	2	6	4	7	7	11	9	15	6	10	8	9	9	
Astragalus testiculatus Pall.	3	8	5	9	8	10	6	12	9	11	1	5	4	7	7	12	8	11	10	17	4	9	8	9
Astragalus ucrainicus M. Pop. et Klokov	5	12	4	7	7	12	6	11	9	12	2	7	4	7	9	11	9	11	8	9	8	9	9	
Astragalus utriger Pall.	3	10	6	10	7	13	6	12	9	12	1	5	3	7	8	12	7	10	10	11	8	9	9	
Astragalus varius S. G. Gmel.	4	12	5	11	5	12	5	12	6	12	1	7	3	7	8	11	10	17	6	10	8	9	9	
Astrantia major L.	9	15	3	7	7	11	5	9	7	10	3	9	5	8	6	9	11	14	6	9	8	10	5	7
Asyneuma canescens (Waldst. et Kit.) Griseb. et Schenk	5	11	4	7	7	11	5	12	7	11	3	7	4	7	8	11	10	12	7	13	7	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Athyrium distentifolium</i> Tausch. ex Opiz	9	16	1	5	3	7	2	6	3	11	4	8	5	9	4	12	12	13	1	17	4	11	4	8
<i>Athyrium filix-femina</i> (L.) Roth	10	17	1	5	3	9	2	10	2	7	4	9	6	10	4	15	10	23	1	17	7	15	3	5
<i>Atragene alpina</i> L.	13	15	2	6	5	9	6	9	2	8	3	6	4	7	4	8	15	18	3	8	7	10	6	8
<i>Atraphaxis frutescens</i> (L.) C. Koch	2	9	2	6	11	13	10	15	8	12	1	5	3	7	7	10							8	9
<i>Atraphaxis replicata</i> Lam.	4	11	2	6	9	14	9	15	9	12	4	8	5	9	7	12	3	11	9	17	5	10	8	9
<i>Atriplex cana</i> C.A.Mey.	1	6	9	11	9	14	10	16	4	9	2	7	3	5	8	11	1	13	5	8	5	11	7	9
<i>Atriplex hortensis</i> L.	8	14	3	7	6	10			4	9	6	10	5	7	7	12	1	15	1	17	5	15	7	9
<i>Atriplex littoralis</i> L.	3	18	9	11	9	14	7	16	2	7	3	7	3	11	7	11	10	18	2	9	1	12	8	9
<i>Atriplex nitens</i> Schkuhr	7	16	3	9	5	11	8	16	4	9	7	10	3	9	7	14	5	18	6	17	5	12	8	9
<i>Atriplex oblongifolia</i> Waldst.et Kit	8	13	3	8	6	10			4	9	4	9	4	7	6	14	5	18	6	15	6	11	8	9
<i>Atriplex patens</i> (Litw.) Ijijn	8	14	7	9	7	12	8	16	7	9	2	7	5	10	7	11	5	14	5	17	3	13	8	9
<i>Atriplex patula</i> L.	8	17	2	9	7	11	7	9	6	10	5	10	4	10	6	14	3	18	6	17	5	12	6	8
<i>Atriplex prostrata</i> Boucher	9	16	2	7	7	14	7	16	3	7	5	11	5	10	6	14	4	18	3	10	7	13	7	9
<i>Atriplex rosea</i> L.	6	12	5	9	7	12	7	16	4	9	3	8	5	8	7	14	5	16	5	14	7	13	8	9
<i>Atriplex tatarica</i> L.	4	14	3	11	7	12	8	16	4	7	3	9	3	7	7	14	3	18	3	9	5	13	8	9
<i>Atropa bella-donna</i> L.	8	15	4	6	7	11	5	9	4	9	6	11	5	8	8	12	10	15	3	10	8	12	5	7
<i>Aurinia saxatilis</i> (L.) Desv.	2	10	1	5	5	11	2	8	5	11	1	4	3	6	8	12	11	14	6	12	7	11	7	9
<i>Avena fatua</i> L.	3	14	5	8	7	10	6	10	6	9	3	8	6	9	4	13	5	15	2	12	5	13	7	9
<i>Avena ludoviciana</i> Durieu	2	9	5	8	7	11	5	13	2	9	2	10	4	6	9	14	3	12	7	17	7	13	7	9
<i>Avena trichophylla</i> C. Koch	3	15	5	8	6	11	5	11	2	9	3	9	4	6	11	14	3	11	9	17	8	12	7	9
<i>Azolla caroliniana</i> Willd.	17	23	8	10	7	12	6	10	5	10	9	11	9	15	9	16	10	15	2	9	9	15	4	8
<i>Azolla filiculoides</i> Lam.	17	23	8	10	10	12	6	10	5	10	9	11	9	15	8	16	10	15	2	9	10	15	4	8
<i>Ballota ruderalis</i> Sw.	7	14	6	9	8	12	5	11	5	11	6	10	5	8	6	14	5	16	7	11	8	10	7	8
<i>Barbarea arcuata</i> (Opiz ex J. et C. Presl) Reichenb.	5	16	5	8	7	10	4	10	5	9	3	9	6	8	4	14	10	16	1	16	6	12	6	9

Barbarea stricta Andrz.	7	17	5	11	7	10	3	10	5	9	8	9	4	9	4	12	10	20	3	17	3	11	6	9
Barbarea verna (Mill.) Aschers.	5	15	5	8	8	11	5	13	7	10	3	9	6	8	7	14	9	18	10	12	3	9	7	9
Barbarea vulgaris R. Br.	5	16	5	8	7	10	4	10	5	9	3	9	6	8	5	13	8	20	2	16	5	12	6	9
Barkhausia rhoeadifolia Bieb.	5	14	7	11	5	12	5	11	2	10	1	8	3	7	8	12	5	13	9	16	8	11	7	9
Bartsia alpina L.	10	17	3	6	7	10	3	10	4	7	3	7	5	8	3	6	14	18	1	7	7	10	7	9
Bassia hirsuta (L.) Aschers.	7	18	2	7	12	15	14	18	6	10	4	11	5	11	5	15	1	15	4	17	5	13	8	9
Bassia sedoides (Pall.) Aschers.	3	13	3	10	12	15	15	17	6	10	2	10	4	7	8	11	1	14	10	17	4	9	8	9
Batrachium aquatile (L.) Dumort.	17	22	1	9	6	11	7	11	5	9	4	8	11	14	3	14	4	12	1	17	1	13	6	8
Batrachium carinatum Schur	17	22	1	6	8	11	5	11	4	9	3	7	11	14	3	8	5	13	5	11	2	10	4	8
Batrachium divaricatum (Schrank) Schur	18	22	1	6	6	11	7	12	5	9	4	8	10	14	6	13	10	20	2	10	8	12	6	8
Batrachium fluitans (Lam.) Wimm.	17	22	1	5	4	9	3	10	3	7	2	5	11	14	6	8	13	17	2	8	8	11	4	8
Batrachium foeniculaceum (Gilib.) V. Krecz.	17	22	1	6	8	11	5	11	4	9	3	7	11	14	3	8	5	13	5	11	2	10	4	8
Batrachium kauffmannii (Clerc) V. Krecz.	18	22	1	6	6	11	7	12	5	9	4	8	10	14	4	8	5	14	5	17	3	9	4	8
Batrachium rionii (Lagger) Nym.	17	22	1	9	7	13	7	13	5	10	4	8	13	15	6	14	1	13	7	17	3	15	4	8
Batrachium trichophyllum (Chaix) Bosch	17	20	1	9	6	11	8	14	4	9	3	9	11	14	3	12	3	15	6	11	1	11	4	8
Beckmannia eruciformis (L.) Host	11	20	5	11	7	10	6	12	4	7	3	10	9	12	5	13	6	13	8	17	6	12	7	9
Bellardiochloa violacea (Bell.) Chiov.	8	14	3	6	5	9	3	7	3	7	3	7	4	7	4	5	15	17	6	7	4	7	7	9
Bellevalia sarmatica (Pall. ex Georgi) Woronow	5	12	4	8	7	11	6	11	8	11	3	8	4	7	9	11	9	11	10	13	7	9	7	9
Bellis perennis L.	8	17	6	9	5	11	5	9	4	8	3	9	7	10	9	13	12	17	3	11	8	12	7	9
Bellis sylvestris Cyr.	8	17	6	9	8	11	7	11	7	10	3	9	6	9	11	15	6	12	6	11	10	13	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Berberis vulgaris</i> L.	5	13	4	9	7	11	4	10	6	11	3	7	5	7	7	12	9	16	2	13	7	12	5	9
<i>Berteroa incana</i> (L.) DC.	3	14	5	11	5	10	1	8	1	11	1	7	4	8	6	12	8	14	6	16	5	11	6	9
<i>Beta</i> & <i>L. trigyna</i> Waldst. et Kit.	5	14	5	9	7	11	7	12	6	10	3	9	4	7	10	12	6	10	6	11	10	11	7	9
<i>Betonica officinalis</i> L.s. i.	5	15	6	8	5	11	3	9	6	11	2	7	6	8	4	12	10	16	2	13	5	11	6	8
<i>Betula borysthonica</i> Klokov	5	13	5	9	5	11	4	11	3	7	3	8	4	8	9	10	10	12	10	12	8	9	6	8
<i>Betula humilis</i> Schrank	12	20	1	6	2	6	2	7	3	5	2	6	8	13	4	8	11	14	8	17	4	9	7	8
<i>Betula klokovii</i> Zaverucha	5	9	6	8	8	11	4	9	9	12	1	5	3	6	8	9	12	13	8	9	8	9	6	9
<i>Betula obscura</i> A. Kotula	8	16	3	9	5	8	1	7	1	9	1	6	4	8	7	10	9	13	8	17	7	10	6	8
<i>Betula pendula</i> Roth.	8	16	3	9	5	7	1	9	1	9	1	6	4	8	4	13	11	18	1	17	2	12	6	8
<i>Betula pubescens</i> Ehrh.	10	19	3	9	3	7	1	7	1	7	1	6	5	9	4	9	11	20	1	17	2	11	6	8
<i>Bidens cernua</i> L.	14	18	9	11	5	10	3	13	4	7	7	11	8	12	5	13	11	16	1	17	9	9	7	8
<i>Bidens comata</i> Muehl.ex Willd.	13	18	9	11	5	10	3	11	4	7	7	11	8	12	9	12	8	16	6	14	8	10	7	8
<i>Bidens frondosa</i> L.	13	19	9	11	5	10	3	11	4	7	5	11	8	12	7	14	11	16	6	14	8	13	6	8
<i>Bidens radiata</i> Thuill.	13	19	9	11	5	10	4	12	4	7	7	10	8	12	3	13	9	14	3	11	3	11	7	9
<i>Bidens tripartita</i> L.	11	19	9	11	7	12	3	15	2	8	7	10	8	12	4	14	9	16	3	13	3	12	7	9
<i>Bifora radians</i> Bieb.	6	12	4	9	8	12	7	11	7	9	5	9	8	12	10	12	6	12	4	12	9	12	6	8
<i>Biscutella laevigata</i> L.	9	13	3	7	6	11	1	4	7	11	1	9	3	6	5	10	11	17	5	8	7	12	7	9
<i>Blechnum spicant</i> (L.) Roth	8	15	1	5	1	7	4	7	1	4	1	6	6	9	5	14	9	23	1	17	9	13	2	4
<i>Blysmus compressus</i> (L.) Panz.ex Link	10	19	3	8	7	12	5	15	3	7	1	7	9	13	6	11	12	15	3	17	4	11	2	5
<i>Bolboschoenus maritimus</i> (L.) Palla	13	19	6	9	7	12	8	15	5	9	3	9	9	13	4	17	3	15	2	14	5	12	7	9
<i>Bombycilaena erecta</i> (L.) Smoljan.	3	10	4	10	7	12	5	13	7	10	2	8	3	7	9	12	10	14	6	12	8	12	8	9
<i>Borago officinalis</i> L.	7	13	4	9	4	10	5	12	5	9	5	10	4	8	4	13	6	15	3	9	5	13	7	9
<i>Bothriochloa ischaemum</i> (L.) Keng	4	12	6	9	7	11	6	10	4	10	2	7	4	7	7	13	5	14	4	17	6	12	8	9

Botrychium lunaria (L.) Sw.	8	16	4	7	3	9	2	7	3	9	3	7	5	8	3	12	11	20	1	14	5	12	5	8
Botrychium matricarifolium A. Br. ex Koch	7	16	3	7	4	7	2	7	2	6			4	7	5	9	13	17	3	7	6	9	4	7
Botrychium multifidum (S. G. Gmel.) Rupr.	8	16	4	7	3	7	2	7	2	5	1	7	4	7	4	9	12	15	5	11	5	10	4	7
Botrychium virginianum (L.) Sw.	8	16	4	7	3	7	2	7	2	5	2	6	5	8	5	17	12	17	6	15	5	15	4	7
Brachypodium pinnatum (L.) Beauv.	5	14	4	7	7	11	5	10	8	11	3	7	3	7	6	12	10	15	1	17	4	12	5	9
Brachypodium rupestre (Host) Roem. et Schult.	6	14	3	8	6	11	4	11	8	12	3	8	4	7	6	12	9	12	3	14	5	12	5	8
Brachypodium sylvatica (Huds.) Beauv.	8	17	3	7	5	11	5	9	6	9	4	9	5	9	6	14	9	16	1	12	6	13	3	5
Brassica armoracoides Czer. ex Turcz.	5	11	5	9	8	10	6	11	5	9	5	7	4	8	6	12	8	17	6	10	6	15	7	9
Brassica campestris L.	6	13	6	9	7	10	3	10	5	10	3	9	3	8	4	14	10	18	2	17	3	12	7	9
Brassica cretacea (Kotov) Stankov ex Tzvelev	4	9	2	6	10	12	9	12	11	13	1	4	3	6	11	12	8	11	8	10	8	10	3	6
Brassica juncea (L.) Czern.	5	11	6	11	9	12	7	16	6	10	5	9	6	8	8	12	5	13	10	17	5	10	7	9
Brassica nigra (L.) Koch	5	14	5	8	7	10	4	10	5	9	3	9	6	8	6	15	12	16	3	12	7	13	7	9
Brassica taurica (Tzvelev) Tzvelev	4	10	7	9	6	9	2	9	4	7	1	6	4	6	9	10	8	10	9	11	9	10	6	9
Briza elatior Sibth. et Smith	8	15	4	6	7	10	4	10	8	10	3	8	5	8	8	11	11	13	7	9	9	10	7	9
Briza media L.	8	17	4	7	5	11	4	12	5	10	2	7	4	7	6	12	11	16	1	13	6	12	6	9
Brizochloa humilis (Bieb.) Chrtek et Hadac	4	14	4	7	7	12	6	12	9	11	2	8	5	7	10	14	6	12	7	15	9	12	8	9
Bromopsis benekenii (Lange) Holub	8	15	3	6	5	10	5	9	6	9	3	10	5	9	6	11	11	13	5	11	7	11	4	6
Bromopsis cappadocica (Boiss. et Bal.) Holub	6	8	4	8	7	11	5	12	9	11	3	8	4	8	8	12	8	13	7	12	9	10	7	9
Bromopsis erecta (Huds.) Fourr.	5	13	4	8	7	11	5	8	7	10	1	7	5	8	6	12	11	15	2	11	9	12	7	9
Bromopsis inermis (Leyss.) Holub	4	19	4	8	7	11	5	14	7	10	3	9	3	7	4	12	6	14	4	17	1	11	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Bromopsis ramosa</i> (Huds.) Holub	8	15	4	8	5	12	5	9	6	11	4	9	4	8	6	11	12	16	2	11	7	11	5	8
<i>Bromopsis riparia</i> (Rehm.) Holub	5	15	4	8	7	12	5	13	9	11	1	8	4	8	7	11	10	12	7	13	8	10	7	9
<i>Bromus arvensis</i> L.	8	16	5	10	5	11	5	9	5	10	3	7	3	6	4	12	3	16	5	17	1	13	7	9
<i>Bromus commutatus</i> Schrad.	4	16	5	8	7	10	3	11	5	10	5	9	4	6	6	13	9	16	3	11	7	13	7	9
<i>Bromus japonicus</i> Thunb.	2	12	5	10	5	11	5	14	7	9	4	9	4	6	8	14	8	13	6	17	6	12	6	9
<i>Bromus mollis</i> L.	5	15	5	11	5	12	5	15	4	7	3	7	4	6	6	13	5	16	4	11	5	13	6	9
<i>Bromus secalinus</i> L.	7	15	5	8	3	9	5	10	4	7	3	8	6	8	3	13	9	18	4	17	4	13	6	8
<i>Bromus squarrosus</i> L.	2	12	5	11	5	13	7	14	2	9	3	9	3	6	8	14	8	13	7	17	6	12	7	9
<i>Bromus tectorum</i> L.	4	16	5	11	5	11	3	13	4	9	3	7	4	6	6	15	5	15	3	17	7	13	7	9
<i>Bruckenthalia spiculifolia</i> (Salisb.) Rehb.	7	12	5	8	4	8	2	5	2	6	2	5	5	8	7	12	11	15	7	12	8	10	7	9
<i>Bryonia alba</i> L.	7	16	3	6	4	11	4	10	3	9	7	11	6	10	6	14	10	15	4	12	7	14	5	9
<i>Bryonia dioica</i> Jacq.	10	16	3	6	7	11	4	10	3	9	7	11	6	10	8	14	9	14	3	11	8	13	5	9
<i>Buffonia parviflora</i> Griseb.	2	7	7	11	9	13	9	13	8	13	2	5	3	7	10	13	8	13	5	11	9	13	8	9
<i>Buglossoides arvensis</i> (L.) Johnston.	5	14	6	10	5	11	6	10	5	9	3	9	3	8	6	13	6	16	2	15	5	13	5	7
<i>Buglossoides sibthorpiana</i> (Griseb.) Czter.	3	10	9	11	9	11	4	15	3	7	1	4	3	7	10	12	9	11	6	11	9	11	8	9
<i>Buglossoides tenuiflora</i> (L.) Johnston.	5	15	8	11	5	11	4	15	5	10	1	7	3	7	10	13	5	10	6	12	11	13	8	9
<i>Bulbocodium versicolor</i> (Ker-Gawl.) Spreng.	5	15	4	8	7	10	6	10	5	9	3	6	4	7	9	14	8	12	8	13	7	9	6	9
<i>Bumias arvensis</i> Jord.	6	12	6	10	7	10	3	14	6	11	5	9	6	9	10	14	8	14	8	12	10	13	7	9
<i>Bumias orientalis</i> L.	5	14	6	10	7	10	3	14	6	11	5	9	6	9	6	12	11	14	4	12	5	11	6	9
<i>Bunium ferulaceum</i> Smith			4	8	7	12	5	12			2	8	5	7	10	11	11	13	7	8	9	9	7	9
<i>Bupleurum affine</i> Sadl.	7	13	4	8	7	13	7	15	7	11	3	7	5	7	9	11	11	13	7	11	9	10	7	9
<i>Bupleurum asperuloides</i> Heldr. ex Boiss.	5	13	4	7	7	11	7	11	7	11	2	7	5	7	11	12	10	12	6	11	10	11	7	9



Bupleurum exaltatum Bieb.	7	11	5	8	7	12	4	11	9	12	2	8	5	6	9	12	3	12	7	17	8	12	6	9
Bupleurum falcatum L.	6	12	5	9	7	12	5	10	9	12	1	7	5	7	7	11	10	15	4	12	7	11	6	9
Bupleurum longifolium L.	8	14	3	7	7	12			11	12	3	8	5	8	9	14	10	14	10	14	9	10	5	8
Bupleurum ranunculoides L.	5	14	3	8	9	12	4	9	5	9	2	6	5	9	7	13	10	14	4	6	8	10	7	9
Bupleurum rotundifolium L.	6	12	5	9	9	12	5	12	6	9	3	7	5	7	7	12	6	14	3	16	8	13	6	9
Bupleurum tenuissimum L.	8	15	5	9	7	11	10	17	7	9	3	7	5	7	9	15	6	15	2	11	9	13	8	9
Bupleurum woronowii Manden.	5	13	4	7	7	12	5	12	7	9	2	8	4	7	11	12	9	11	7	8	9	11	6	9
Buschia lateriflora (D&c.) Ovcz.	11	17	9	11	9	12	10	15	5	9	3	6	9	12	8	13	3	12	6	16	8	13	7	9
Butomus umbellatus L.	16	19	9	11	5	10	4	15	5	9	7	10	9	12	5	13	8	15	1	17	1	12	6	9
Cakile euxina Pobed.	5	15	9	11	11	15	13	19	2	6	1	3	3	7	10	12	10	12	8	11	8	10	8	9
Calamagrostis arundinacea (L.)Roth	8	16	6	9	3	7	1	9	2	6	3	7	6	9	5	10	10	14	3	17	3	11	5	7
Calamagrostis canescens (Web.)Roth	14	21	3	6	3	9	1	9	2	7	3	9	9	12	3	10	10	15	3	15	5	11	5	8
Calamagrostis epigeios (L.)Roth	8	15	9	11	5	7	2	12	1	9	2	9	3	6	4	13	5	18	2	17	1	11	6	9
Calamagrostis neglecta (Ehrh.)Gaertn., Mey.et Scherb.	14	18	3	6	7	11	2	10	2	6	1	5	9	12	2	10	10	15	1	17	1	10	7	9
Calamagrostis pseudophragmites (Hall. f.)Koel.	8	18	6	10	9	12	4	7	2	5	2	8	4	7	6	12	5	10	5	17	1	10	6	8
Calamagrostis varia (Schrad.)Host	5	14	6	9	8	11	4	8	2	9	2	6	4	8	6	10	14	18	5	8	8	11	6	8
Calamagrostis villosa (Chaix)J.F.Gmel.	8	16	3	7	1	6	3	7	2	5	1	5	4	8	7	8	12	14	5	8	7	9	5	8
Calamintha grandiflora (L.)Moench	9	16	3	7	7	12	5	10	8	11	5	10	6	8	10	13	9	13	6	10	9	12	3	6
Calepina irregularis (Asso) Thell.	4	9	7	11	8	12	9	16	6	10	1	5	4	7	10	14	3	14	4	17	9	14	7	9
Calla palustris L.	13	21	1	4	5	9	2	8	1	3	3	7	12	15	5	9	11	18	3	17	1	10	5	9
Callianthemum coriandrifolium Rehb.	9	15	3	7	3	7	3	9	2	5	3	5	5	7	1	4	16	19	3	6	5	8	7	9
Callitriche cophocarpa Sendtner	17	22	9	11	5	10	4	9	3	7	1	7	11	14	3	12	11	15	3	13	5	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SIi	SIa	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Callitriche hamulata</i> Kutz. ex Koch	17	21	9	11	4	7	4	9	2	5	3	10	11	14	6	12	12	18	1	8	7	12	7	9
<i>Callitriche hermaphroditica</i> L.	17	21	9	11	5	11	5	11	2	5	3	7	11	14	4	11	5	18	1	17	1	11	6	9
<i>Callitriche stagnalis</i> Scop.	17	21	9	11	5	11	6	11	2	7	3	9	11	14	6	14	5	15	1	10	9	15	6	9
<i>Callitriche verna</i> L.	17	21	9	11	4	7	4	9	2	7	3	9	11	14	4	14	3	18	1	17	1	11	6	9
<i>Calluna vulgaris</i> (L.) Hull	3	17	7	11	1	5	1	5	1	4	1	4	3	6	3	11	12	18	1	12	6	13	5	9
<i>Calophaca wolgarica</i> (L. fil.) DC.	5	12	6	9	9	11	7	12	9	11	4	9	4	7	9	11	8	11	11	13	7	8	7	8
<i>Caltha cornuta</i> Schott, Nym. et Kotschy	12	21	7	11	6	10	5	11	2	7	5	9	8	14	4	11	11	20	5	12	1	11	3	9
<i>Caltha laeta</i> Schott, Nym. et Kotschy	12	21	7	11	4	8	4	9	2	7	4	9	8	14	5	8	14	17	5	9	8	10	3	9
<i>Caltha palustris</i> L.	12	21	7	11	6	10	4	11	2	7	5	9	8	14	3	12	10	20	1	17	1	12	3	9
<i>Calystegia sepium</i> (L.) R.Br.	9	17	4	9	7	11	3	11	4	8	7	11	7	11	6	13	8	16	1	16	5	13	6	9
<i>Calystegia soldanella</i> (L.) R. Br.	7	16	7	10	9	13	11	17	2	7	1	7	3	6	6	14	10	18	1	13	7	14	8	9
<i>Camelina alyssum</i> (Mill.) Thell.	7	14	4	8	3	9	2	7	3	7	3	7	5	8	5	10	11	15	8	11	5	12	6	8
<i>Camelina microcarpa</i> Andr.	4	11	3	11	6	12	4	12	7	11	3	7	3	7	6	12	8	14	5	17	5	11	6	9
<i>Camelina pilosa</i> (D&C) N. Zirg.	7	14	4	8	6	10	4	10	6	10	3	9	5	8	4	12	10	15	3	14	6	12	6	9
<i>Camelina rumelica</i> Velen.	4	9	3	11	6	12	6	13	8	11	1	7	3	7	10	12	6	12	11	17	6	10	7	9
<i>Camelina sativa</i> (L.) Crantz	7	14	4	8	6	10	4	10	6	10	3	9	5	8	4	14	10	15	3	16	3	12	6	9
<i>Campanula abietina</i> Griseb. et Schenk	9	16	3	5	3	8	3	10	2	7	2	8	7	9	6	9	15	18	5	7	7	9	3	6
<i>Campanula alpina</i> Jacq	8	15	4	7	3	8	3	10	10	12	2	5	4	8	4	6	16	18	6	7	5	7	7	9
<i>Campanula altaica</i> Ledeb.	9	14	5	8	7	10	5	10	5	9	3	8	5	8	7	11	7	14	10	17	5	9	7	9
<i>Campanula bononiensis</i> L.	5	13	5	8	7	11	5	9	4	9	2	7	5	7	6	13	9	13	3	15	6	12	6	8
<i>Campanula carpatica</i> Jacq.	10	14	4	8	5	8	3	8	7	11	1	6	3	7	4	8	14	16	7	9	6	8	7	9

Campanula cervicaria L.	8	15	5	9	7	11	3	7	5	9	3	9	4	8	5	10	10	15	5	11	4	11	6	8
Campanula glomerata L. s.l.	8	13	5	8	7	12	3	13	6	11	3	7	5	7	4	12	7	15	1	17	4	12	6	8
Campanula latifolia L.	9	17	4	7	7	11	5	9	6	9	6	10	5	8	5	13	11	18	2	14	6	12	5	8
Campanula patula L.	8	16	5	8	6	10	4	9	5	8	3	7	5	8	4	11	11	15	2	12	5	11	6	9
Campanula persicifolia L.	8	14	5	8	7	11	3	9	7	9	2	7	5	7	5	11	11	14	2	14	6	9	4	8
Campanula rapunculoides L.	8	14	5	8	7	11	5	10	4	9	3	7	5	7	6	10	10	16	2	14	6	9	6	8
Campanula rapunculus L.	8	13	5	8	5	9	5	11	4	9	3	7	5	7	7	12	8	15	6	12	8	10	6	8
Campanula rotundifolia L.	7	14	5	8	3	11	2	7	2	10	1	5	4	7	4	10	12	18	1	17	3	9	5	8
Campanula sibirica L. s.l.	3	14	3	7	7	12	4	13	8	12	2	6	4	7	4	14	8	14	7	14	6	10	6	9
Campanula trachelium L.	8	15	3	6	7	11	4	9	4	8	5	10	6	9	4	13	10	15	3	11	6	13	3	7
Camphorosma annua Pall.	7	11	5	7	6	13	6	16	4	9	1	5	5	7	9	11	6	12	10	17	5	11	8	9
Camphorosma monspeliaca L.	5	12	8	10	6	13	5	17	8	11	1	6	3	8	9	15	5	11	11	17	5	11	8	9
Cannabis ruderalis Janisch.	6	15	4	7	5	10	6	12	3	7	5	9	4	6	6	14	8	14	5	9	5	9	6	8
Capparis herbacea Willd.	1	5	8	11	11	13	9	16	6	10	1	4	3	7	11	15	1	12	9	17	9	13	8	9
Capsella bursa-pastoris (L.) Medik.	7	15	3	10	3	11	3	11	2	10	3	9	5	9	4	14	5	20	1	17	7	15	6	9
Capsella orientalis Klokov	8	13	3	10	7	10	4	10	5	9	3	9	5	9	7	9	10	13	11	14	6	8	7	9
Capsella rubella Reut.											5	10	5	9	10	14	1	15	3	14	11	13	7	9
Caragana frutex (L.) C. Koch	6	11	5	8	7	11	6	11	8	11	3	8	4	6	7	11	7	11	10	17	4	10	7	9
Caragana mollis (Bieb.) Bess.	6	11	5	8	7	11	6	11	8	11	3	8	4	6	8	11	10	12	10	13	8	10	8	9
Caragana scythica (Kom.) Pojark.	2	8	5	8	7	11	7	12	9	12	3	8	4	6	8	11	10	13	9	12	8	9	8	9
Cardamine amara L.	10	20	1	11	3	7	4	8	3	8	3	9	7	13	5	12	10	14	2	4	5	11	4	9
Cardamine dentata Schult.	10	19	1	11	3	8	4	9	3	8	3	9	7	13	4	12	10	20	1	12	3	12	4	9
Cardamine flexuosa With.	10	18	1	6	3	7	4	8	7	8	3	9	7	13	5	14	9	20	2	10	7	12	3	9
Cardamine graeca L.	7	12	3	6	8	11	7	10	7	10	5	10	4	8	11	14	9	12	7	9	9	12	4	6
Cardamine hirsuta L.	10	16	3	5	8	11	7	10	7	9	5	10	6	10	6	14	9	20	1	17	9	15	3	7

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Cardamine impatiens</i> L.	10	17	1	6	3	7	4	8	3	8	3	9	7	13	7	12	12	15	4	14	9	11	4	8
<i>Cardamine matthioli</i> Moretti	12	18	8	11	6	9	4	7	3	8	6	11	7	11	9	12	10	13	8	11	9	10	5	8
<i>Cardamine opizii</i> J. et C. Presl	11	21	1	4	3	7	2	6	1	6	3	9	5	13	5	8	14	18	3	6	7	10	7	9
<i>Cardamine parviflora</i> L.	11	17	1	5	7	11	7	13	6	9	5	10	7	13	6	13	10	16	4	14	8	12	6	9
<i>Cardamine pratensis</i> L.	10	18	8	11	5	8	3	6	3	8	6	11	7	11	6	13	11	15	3	12	8	12	4	8
<i>Cardamine rivularis</i> Schur	13	17	8	11	2	5	1	4	1	5	5	10	9	12	3	5	16	18	5	7	6	8	6	9
<i>Cardamine tenera</i> S.G. Gmelin ex C.A. Meyer	10	14	2	4	8	11	4	7	8	11	8	11	8	11	11	13	10	14	5	9	10	11	3	5
<i>Cardaminopsis arenosa</i> (L.) Hayek	4	13	5	11	5	10	2	6	2	10	1	3	3	7	7	11	12	15	5	10	8	11	6	9
<i>Cardaminopsis dependens</i> Soo	8	16	3	7	5	8	2	5	8	12	1	3	2	6	5	9	14	17	4	7	6	10	7	9
<i>Cardaminopsis halleri</i> (L.) Hayek	10	16	2	6	3	6	3	6	3	7	3	7	5	11	6	12	12	15	5	10	7	11	5	9
<i>Cardaminopsis neglecta</i> (Schult.) Hayek	8	16	3	7	3	7	1	5	1	7	1	4	2	7	2	5	16	20	3	7	3	7	7	9
<i>Cardaminopsis ovirensis</i> (Wulf.) Thell. ex Jav.	10	16	3	8	5	10	3	6	8	11	1	6	4	9	5	7	16	18	6	8	7	9	6	9
<i>Cardaminopsis petraea</i> (L.) Hiit.	7	14	3	7	6	11	2	7	4	11	1	4	2	6	2	5	14	18	2	5	3	11	8	9
<i>Cardaria draba</i> (L.) Desv.	3	10	7	11	7	12	7	15	7	10	5	11	5	9	6	15	5	14	7	14	7	13	6	9
<i>Cardaria propinqua</i> (Fischer et C.A. Meyer) N. Busch	4	10	8	11	8	12	3	15	4	9	1	5	4	7	7	14	1	8	15	17	7	11	7	9
<i>Cardaria pubescens</i> (C.F. Meyer) Jarm.	4	10	8	11	10	13	11	17			1	4	4	8	8	15	1	12	3	17	5	13	7	9
<i>Carduus acanthoides</i> L.	5	13	5	9	5	11	7	13	4	9	6	10	4	7	4	13	10	14	10	13	7	10	7	9
<i>Carduus crispus</i> L.	5	17	3	6	7	11	7	13	4	7	7	11	9	12	4	13	9	17	2	11	5	11	6	8
<i>Carduus hamulosus</i> Ehrh.	6	10	5	8	5	10	7	13	4	7	6	8	4	8	9	13	7	10	8	10	7	10	7	9
<i>Carduus kernerii</i> Simonk.	10	14	3	6	5	8	3	10	4	7	3	8	5	9	4	7	16	18	6	7	5	7	7	9
<i>Carduus nutans</i> L.	5	13	5	8	7	11	3	13	4	9	4	9	4	9	4	13	6	16	5	9	9	10	7	9

Carduus personata (L.) Jacq.	11	19	3	6	4	9	3	9	3	6	7	9	9	12	4	7	13	16	5	7	8	9	3	8
Carduus pseudocollinus (Schmalh.) Klokov	6	12	5	8	6	12	6	11	5	9	3	8	4	8	9	11	9	11	10	12	7	8	7	9
Carduus pycnocephalus L.	4	12	5	8	7	12	6	11	4	7	3	7	4	7	11	14	6	15	6	10	9	13	6	9
Carduus thomeri Weinm.	6	12	5	8	7	11	7	11	5	9	3	8	4	8	7	12	9	14	9	13	7	10	7	9
Carduus uncinatus Bieb.	3	11	5	8	7	12	6	14	8	10	3	8	4	7	9	12	7	11	10	14	7	10	7	9
Carex acuta L.	13	19	2	5	5	9	3	11	4	8	3	7	10	14	4	13	9	15	2	17	1	11	6	9
Carex acutiformis Ehrh.	13	21	2	5	7	11	3	11	4	8	3	9	10	14	6	13	6	16	3	17	4	12	4	9
Carex alba Scop.	7	13	6	9	7	11	5	10	8	11	1	6	4	6	4	9	12	14	6	17	1	10	6	9
Carex appropinquata Schum.	14	20	2	5	7	12	3	10	4	7	2	7	10	14	5	9	10	16	7	9	3	11	7	9
Carex atherodes Spreng.	14	19	6	9	7	9	3	9	2	5	4	7	9	11	4	9	9	14	7	14	4	9	5	9
Carex atrata L.	8	15	2	5	5	9	3	7	1	6	1	5	7	10	3	9	15	18	1	10	5	10	7	9
Carex bicolor All.	10	17	1	3	2	5	1	4	3	6	2	6	9	13	2	5	15	18	3	6	3	7	7	9
Carex bohemica Schreb.	11	18	3	10	2	8	1	8	1	6	1	5	7	9	5	10	10	14	5	16	4	10	6	9
Carex brevicollis D&c.	6	14	3	6	6	10	4	9	6	9	3	9	5	8	8	12	11	13	8	12	8	11	4	7
Carex brizoides L.	10	17	3	6	3	7	3	9	2	6	2	6	8	10	7	10	10	15	5	10	9	10	4	7
Carex buekii Wimm.	14	20	6	10	7	11	7	14	5	9	5	9	7	11	8	11	11	14	6	12	8	10	4	9
Carex buxbaumii Wahlentb.	13	21	3	6	5	9	3	11	3	6	3	7	9	14	4	10	12	16	6	13	6	10	7	9
Carex canescens auct. non L.	14	19	1	4	2	6	3	7	3	6	4	8	8	13	3	9	11	23	1	17	3	12	6	9
Carex capillaris L.	9	18	2	5	7	11	3	7	4	7	1	5	8	12	3	9	12	18	5	11	3	11	6	9
Carex caryophyllea Latourr.	7	14	6	8	5	8	5	11	6	11	1	7	4	7	6	12	11	16	2	16	5	11	6	9
Carex cespitosa L.	13	20	3	6	3	9	4	9	3	8	4	9	10	14	3	10	11	18	5	12	4	11	5	9
Carex chondrorriza Ehrh.	13	19	1	3	1	5	1	3	1	4	1	5	11	14	2	9	12	15	1	17	1	10	7	9
Carex cinerea Poll.	14	20	2	7	3	7	1	9	2	6	1	5	8	12	4	11	6	18	1	17	1	11	7	9
Carex colchica J.Gay	2	13	9	11	3	10	5	14	3	6	1	5	4	7	7	12	9	12	5	16	6	11	6	9
Carex contigua Hoppe	8	15	6	8	5	9	3	11	3	6	4	9	4	7	6	13	9	18	1	15	5	13	6	9
Carex curvula All.	7	13	4	7	1	6	1	5	1	5	1	4	4	7	3	5	15	18	5	7	7	9	8	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Carex cuspidata</i> Host	5	14	4	6	7	12	4	12	7	10	2	8	6	8	10	12	11	12	6	9	10	12	5	8
<i>Carex davalliana</i> Smith	13	19	1	4	7	11	4	10	6	10	1	5	8	11	7	11	12	14	6	9	9	10	8	9
<i>Carex depauperata</i> Curt. ex With.	4	12	5	9	9	11	6	11	7	11	3	6	5	8	7	13	10	15	3	11	9	12	6	8
<i>Carex depressa</i> Link	6	15	3	6	6	10	5	10	4	11	3	9	4	7	10	12	11	13	6	10	8	10	3	7
<i>Carex diandra</i> Sehrank	13	21	2	5	5	9	3	9	4	7	1	7	10	14	3	11	8	20	4	15	1	10	7	9
<i>Carex digitata</i> L.	9	15	4	7	5	11	4	10	5	11	2	7	5	8	5	11	11	18	2	13	6	11	2	6
<i>Carex diluta</i> Bieb.	12	19	7	9	10	12	9	5	5	8	2	7	8	11	7	13	3	12	11	17	3	13	8	9
<i>Carex dioica</i> L.	13	19	2	6	5	11	1	5	2	6	1	5	9	12	2	9	11	18	7	11	3	11	5	9
<i>Carex distans</i> L.	10	17	7	9	7	13	8	15	5	7	3	8	8	11	6	14	6	16	1	12	8	13	8	9
<i>Carex disticha</i> Huds.	14	19	6	9	7	11	4	14	4	8	3	9	8	12	6	11	11	17	2	16	4	11	6	9
<i>Carex divisa</i> Huds.	11	16	8	11	7	11	7	15	3	7	5	11	4	8	8	15	3	16	2	6	7	15	7	9
<i>Carex divulsula</i> Stokes	8	13	9	11	6	9	3	10	3	8	4	9	4	7	7	14	6	15	3	16	9	13	5	8
<i>Carex echinata</i> Murr.	12	18	1	5	2	7	4	10	4	7	1	5	8	12	4	14	11	18	1	12	5	12	6	9
<i>Carex elata</i> All.	13	20	2	5	5	9	5	8	4	7	3	7	8	12	5	11	12	15	3	10	5	12	6	9
<i>Carex elongata</i> L.	14	21	2	6	5	10	3	9	4	7	5	9	8	12	5	11	12	15	3	14	5	11	4	7
<i>Carex ericetorum</i> Poll.	5	14	5	8	3	9	3	8	5	10	1	5	4	7	4	9	11	15	3	17	2	11	5	8
<i>Carex extensa</i> Good.	10	16	9	11	9	12	8	16	5	9	3	8	6	8	6	14	9	16	1	8	10	13	8	9
<i>Carex flacca</i> Schreb.	9	15	6	8	7	11	6	9	5	11	3	6	4	7	7	12	9	16	4	16	7	12	6	9
<i>Carex flava</i> L.	13	19	2	5	7	11	3	8	8	10	2	5	9	12	4	13	12	16	1	10	7	12	6	9
<i>Carex fuliginosa</i> Schkuhr	6	14	2	5	5	8	1	6	6	10	1	5	4	6	3	6	16	18	6	7	8	9	7	9
<i>Carex globularis</i> L.	13	18	2	5	2	7	1	8	2	6	3	10	7	10	3	10	12	18	5	17	1	10	5	9
<i>Carex hallerana</i> Asso	3	10	4	6	6	12	5	12	5	10	3	8	6	8	10	14	8	15	5	17	9	13	2	7
<i>Carex hartmanii</i> Cajand.	10	17	3	6	5	9	3	10	5	6	3	8	5	8	4	9	11	15	5	13	6	11	5	9
<i>Carex heleonastes</i> Ehrh.	13	19	1	4	4	7	1	4	1	5	1	6	9	12	4	8	12	14	6	16	3	9	5	9
<i>Carex hirta</i> L.	8	17	6	11	5	11	3	11	7	11	3	9	4	8	5	13	11	18	5	11	6	13	5	9
<i>Carex hordeistichos</i> Vill.	10	16	6	10	6	10	4	13	3	7	2	6	7	10	8	12	10	14	6	12	8	11	7	9

Carex hostiana D&c.	14	18	2	5	5	12	4	10	6	10	1	5	8	11	5	10	11	17	1	11	9	11	6	9
Carex humilis Leys.	6	12	6	9	7	12	5	10	10	13	1	7	4	7	7	14	10	15	2	16	5	12	6	9
Carex juncella (Fries)Th. Fries	13	19	1	5	2	10	1	10	2	8	1	7	9	14	4	11	10	14	1	13	5	12	5	8
Carex lasiocarpa Ehrh.	13	19	1	4	3	7	1	3	1	4	1	6	11	14	3	11	12	18	5	11	2	11	7	9
Carex lepidocarpa Iausch	10	17	2	5	5	10	3	12			3	6	8	12	5	11	13	16	1	8	8	11	6	9
Carex leporina L.	10	17	5	9	3	7	3	9	1	7	3	7	8	12	5	13	11	18	1	14	5	12	6	9
Carex limosa L.	13	21	1	4	1	6	1	3	1	5	1	5	11	14	3	11	12	18	6	12	1	12	7	9
Carex liparicarpos Gaudin	6	14	6	11	8	11	5	12	5	12	1	5	4	7	10	14	9	11	6	11	9	13	8	9
Carex melanostachya Bieb. ex Willd.	8	16	7	10	8	11	7	14	4	7	3	7	5	8	7	12	6	14	6	17	5	11	6	9
Carex michelii Host	5	14	6	8	7	11	5	11	6	11	3	7	4	7	8	11	10	13	7	11	7	11	5	9
Carex montana L.	5	14	4	6	5	11	5	11	5	10	2	7	5	8	6	10	11	15	3	12	6	11	4	7
Carex muricata L.	9	20	6	8	5	11	1	5	4	7	4	9	4	7	5	11	10	16	6	10	5	13	5	7
Carex nigra (L.)Reichard	10	18	1	5	3	9	3	11	2	8	1	5	9	14	4	12	10	18	1	13	5	11	4	9
Carex obtusata Lijiebl.	7	13	5	8	3	10	3	11	6	9	3	7	5	8	5	9	11	15	6	17	1	9	6	9
Carex ornithopoda Willd.	6	13	6	8	9	12	5	10	9	12	1	7	4	6	5	9	12	15	4	10	7	10	6	8
Carex otrubae Podp.	12	18	5	9	5	10	5	14	3	8	3	9	8	12	6	13	5	14	1	17	7	11	6	9
Carex pallescens L.	6	15	5	8	3	7	3	10	6	10	3	7	6	8	4	13	10	18	1	16	5	12	5	9
Carex panicea L.	11	18	3	6	5	9	3	11	4	8	2	7	6	8	5	11	12	17	1	11	6	11	6	9
Carex paniculata L.	13	19	1	4	7	10	5	10	4	7	3	7	9	13	6	13	11	16	1	10	7	12	6	8
Carex pauciflora Lightf.	10	18	1	4	1	5	1	7	1	4	1	4	11	14	3	9	8	18	7	11	3	12	8	9
Carex pediformis C.A.Mey.	5	13	6	9	5	12	5	10	10	13	3	7	4	7	5	9	10	14	6	17	1	9	7	9
Carex pendula Huds.	10	18	2	5	6	9	5	10	5	9	3	9	8	11	7	14	10	16	2	12	9	13	3	5
Carex pillosa Scop.	8	15	3	6	5	9	4	9	6	9	3	9	5	8	7	10	12	14	6	12	7	10	3	5
Carex pilulifera L.	8	15	5	8	3	7	2	9	11	13	3	7	4	7	5	12	12	18	1	10	9	12	5	9
Carex praecox Schreb.	5	14	5	9	5	12	5	11	11	13	2	7	4	6	6	12	10	14	5	17	3	11	5	9
Carex pseudocyperus L.	13	21	2	5	6	11	3	9	3	7	3	9	8	13	6	11	11	15	3	13	5	12	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Carex remota</i> L.	10	18	1	4	5	11	5	9	4	6	3	9	9	12	6	14	8	16	2	10	7	12	2	4
<i>Carex rhizina</i> Blytt ex Lindbl.	8	14	4	7	5	11	4	10	5	11	2	7	5	8	6	9	11	15	6	12	5	9	9	7
<i>Carex riparia</i> Curt.	14	19	2	5	7	11	5	12	4	7	3	7	8	13	6	14	8	16	2	17	5	12	4	9
<i>Carex rostrata</i> Stokes	13	19	2	5	3	9	2	9	4	7	1	7	8	13	3	12	10	20	1	17	1	11	7	9
<i>Carex rupestris</i> All.	5	14	3	5	2	6	2	6	4	9	1	5	4	7	1	8	15	20	1	17	1	10	8	9
<i>Carex secalina</i> Wahlenb.	10	16	8	11	8	11	9	14	4	7	2	5	5	8	7	10	11	14	6	15	5	10	7	9
<i>Carex sempervirens</i> Vill.	8	13	4	7	5	9	3	10			1	7	4	7	6	8	12	16	5	9	7	11	7	9
<i>Carex serotina</i> Merat	13	18	5	9	5	11	3	8	4	10	1	5	4	7	3	13	9	18	5	11	3	11	6	9
<i>Carex stenophylla</i> Wahlenb.	3	12	7	10	5	11	5	15	6	11	1	7	4	7	6	11	11	13	8	16	6	11	6	9
<i>Carex supina</i> Wahlenb.	2	11	4	7	7	12	5	12	6	11	2	5	4	7	7	11	6	14	6	16	5	10	6	9
<i>Carex sylvatica</i> Huds.	8	15	3	6	5	11	4	9	4	7	3	9	5	8	6	13	10	16	2	12	6	12	1	4
<i>Carex tomentosa</i> L.	7	16	5	8	7	12	5	9	4	9	1	7	5	8	7	11	8	16	1	17	5	11	6	8
<i>Carex tripartita</i> All.	10	17	2	5	2	7	2	9	5	10	1		9	11	3	5	16	18	2	9	1	4	7	9
<i>Carex umbrosa</i> Host	8	15	4	7	5	9	4	9	3	8	3	8	6	8	7	11	12	14	6	10	8	11	3	6
<i>Carex vaginata</i> Tausch	11	17	6	8	3	7	3	8	3	7	1	7	4	6	2	10	12	18	7	11	3	11	5	8
<i>Carex vesicaria</i> L.	13	19	2	7	5	9	2	10	8	12	3	9	9	14	3	11	10	18	1	17	4	10	6	9
<i>Carex vulpina</i> L.	13	20	5	9	7	11	5	11	3	8	3	9	8	12	6	14	8	16	1	15	4	13	5	9
<i>Carlina acaulis</i> L.	5	13	5	8	3	11	4	7	7	10	1	5	5	7	7	11	11	14	5	7	8	11	7	9
<i>Carlina biebersteinii</i> Bernh. ex Hornem.	5	14	6	9	7	10	5	11	4	9	1	5	4	7	7	11	9	14	5	15	5	10	6	9
<i>Carlina cirsioides</i> Klokov	5	14	6	9	7	11	4	10	6	11	3	7	5	8	10	14	11	12	8	11	8	9	6	9
<i>Carlina onopordifolia</i> Bess. ex Szaf., Kulcz. et Pawl.	5	13	3	7	7	10	6	10	11	13	3	6	3	6	8	9	12	14	7	9	9	9	8	9
<i>Carlina taurica</i> Klokov	6	12	5	8	7	12	5	11	8	11	1	7	4	7	7	8	12	13	7	8	9	9	7	9
<i>Carlina vulgaris</i> L.	5	13	6	9	5	12	3	9	6	9	1	7	4	7	6	11	12	15	6	8	9	10	6	9
<i>Carpesium cernuum</i> L.	8	15	4	7	5	9	3	9	6	9	3	7	5	8	8	12	12	14	7	9	9	11	6	9
<i>Carpinus betulus</i> L.	8	15	3	6	5	11	4	9	4	8	3	9	5	8	7	11	11	15	5	10	8	11	2	6



Carpinus orientalis Mill.	5	13	4	6	7	11	4	10	8	11	3	7	5	8	10	13	8	12	8	12	9	12	2	6
Carthamus lanatus L.	5	13	3	7	7	11	6	11	6	10	3	7	3	7	9	14	6	15	6	14	9	12	7	9
Carum carvi L.	8	17	2	7	6	9	5	10	8	11	5	9	5	11	4	13	12	19	3	12	1	11	7	9
Catabrosa aquatica (L.) Beauv.	14	19	8	10	7	11	5	10	4	7	5	10	8	11	3	13	11	18	3	12	6	12	7	9
Caucalis bischoffii K.-Pol.	5	11	4	9	7	12	6	12			1	8	5	7							10	13		
Caucalis platycarpus L.	5	13	3	9	7	12	6	12	5	10	3	7	5	7	8	13	6	15	3	12	9	13	6	9
Caulinia minor (All.) Coss. et Germ.	20	23	2	9	7	11	9	12	4	9	6	9	11	14	6	17	3	16	6	17	3	15	5	8
Celsia orientalis L.	6	12	3	6	7	11	9	11	10	12	1	4	3	5	11	14	3	10	6	17	9	13	8	9
Celtis glabrata Stev. ex Planch.	4	9	7	11	7	11	6	12	8	12	3	5	3	6	11	12	9	13	9	11	9	11	6	9
Cenolophium denudatum (Hornem.) Tutin	13	18	6	10			5	11																
Centaurea adpressa Ledeb.	1	7	5	8	5	12	5	12	5	12	6	9	2	8	7	11	6	13	9	17	6	10	7	9
Centaurea alpestris Hegetschw.	5	13	3	7	7	12	5	11	9	12	3	7	4	7	9	11	12	14	4	7	7	9	7	9
Centaurea apiculata Ledeb.	6	13	3	7	7	12	5	12	9	12	3	7	4	7	7	10	7	9	7	11	10	15	7	9
Centaurea appendicata Klokov	5	12	7	10	5	9	4	9	3	7	1	5	3	6	9	10	10	11	11	11	8	9	8	9
Centaurea breviceps Ilijin	5	12	7	10	5	10	4	10	5	8	1	5	3	6	10	11	10	11	9	11	8	9	8	9
Centaurea calcitrapa L.	5	13	4	9	7	12	7	13	5	9	3	7	4	8	8	14	6	15	2	11	10	13	8	9
Centaurea caprina Steven	5	12	6	9	6	10	5	11	9	12	2	6	4	7	11	12	9	10	8	9	9	10	7	9
Centaurea carpatica (Porc.) Porc.	7	16	4	7	4	9	5	9	5	9	4	7	6	9	5	7	15	18	7	8	7	8	5	9
Centaurea comperiana Steven	5	12	6	9	6	10	5	11	9	12	2	6	3	7	11	12	9	10	8	9	9	10	7	9
Centaurea cyanus L.	5	13	5	8	5	9	5	9	4	18	3	7	5	8	4	15	11	18	3	11	3	12	7	9
Centaurea depressa Bieb.	5	13	4	9	7	12	7	13	9	11	2	7	4	7	8	13	6	10	10	17	8	11	8	9
Centaurea diffusa Lam.	4	10	7	11	5	13	7	14	8	11	4	9	3	7	8	13	10	12	6	11	8	10	8	9
Centaurea donetzica Klokov	4	12	7	10	5	10	4	9	3	7	1	5	3	6	9	10	10	11	11	11	8	9	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Centaurea fuscumarginata</i> (C. Koch) Juz.	8	15	4	6	7	12	7	11	9	11	2	8	4	7	8	9	11	13	7	8	8	8	7	9
<i>Centaurea iberica</i> Trev. ex Spreng.	6	16	7	11	5	11	5	13	6	9	3	7	6	9	11	12	9	12	8	12	10	11	7	9
<i>Centaurea jacea</i> L.	8	17	6	10	5	9	3	13	4	7	3	9	6	8	4	12	11	16	5	12	6	11	5	9
<i>Centaurea konkiae</i> Klokov	5	12	7	10	5	9	4	9	3	7	1	5	3	6	9	10	10	11	11	11	8	9	8	9
<i>Centaurea kotschyana</i> Heuff.	9	15	5	7	4	6	3	6	4	7	3	5	6	8	6	7	15	17	6	7	8	9	6	9
<i>Centaurea lavrenkoana</i> Klokov	5	11					6	12	8	9									10	11	8	8		
<i>Centaurea margaritacea</i> Ten	5	12	7	10	5	9	4	9	3	7	1	5	3	6	10	11	10	11	10	11	8	9	8	9
<i>Centaurea marschalliana</i> Spreng.	4	10	3	6	7	11	5	12	8	13	2	8	4	7	7	11	10	12	8	11	8	10	6	9
<i>Centaurea micranthos</i> S.G. Gmel. ex Hayek	5	11	3	7	6	12	6	11	9	12	3	8	4	7	7	11	9	12	8	14	5	10	8	9
<i>Centaurea mollis</i> Waldst. et Kit.	8	15	4	7	5	8	3	9	5	9	3	8	6	8	4	5	16	18	6	7	6	7	7	9
<i>Centaurea orientalis</i> L.	6	11	3	6	7	12	6	11	11	13	2	8	4	7	7	10	9	12	6	12	8	11	8	9
<i>Centaurea paczoskii</i> Kotov ex Klokov	5	12	7	10	5	9	4	9	3	7	1	5	3	6	10	11	10	11	10	11	8	9	8	9
<i>Centaurea pannonica</i> (Heuff.) Simonk.	10	15	6	8	7	11	5	11	8	10	3	6	6	8	7	12	11	14	7	11	8	10	6	9
<i>Centaurea phrygia</i> L.	9	14	6	9	5	10	3	9	5	9	3	6	4	7	4	9	11	14	5	12	5	10	6	9
<i>Centaurea pseudocoriacea</i> Dobroc.	5	13	4	8	7	10	5	11	8	11	3	8	4	7	4	12	9	14	7	14	6	10	6	9
<i>Centaurea pseudoleucolepis</i> Kleop.	8	13	6	9	4	9	4	8	3	5	2	7	3	6	11	10	10	11	10	10	8	9	8	9
<i>Centaurea pseudomaculosa</i> Dobroc.	5	12	4	7	6	12	5	11	7	12	3	7	4	7	7	10	9	13	9	14	6	10	8	9
<i>Centaurea pseudophrygia</i> C.A. Mey.	9	14	4	7	5	9	5	9	6	10	3	7	5	8	6	11	11	15	6	9	6	11	5	9
<i>Centaurea rhenana</i> Boreau	5	11	4	11	7	12	5	12	7	12	1	7	3	8	7	11	11	14	5	11	9	10	6	9
<i>Centaurea ruthenica</i> Lam.	3	11	2	6	7	12	8	13	10	13	2	8	4	7	7	11	9	12	7	17	6	10	7	9

Centaurea salnitana Vis.	5	12	3	7	7	12	8	13	8	12	2	7	4	7				7	12	9	10	8	9	
Centaurea sarandiniakiae N. B. Illar.	5	12	3	6	6	10	5	11	9	12	2	6	3	6	11	12	9	10	8	9	10	8	9	
Centaurea scabiosa L.	5	13	5	9	7	11	6	11	6	11	2	7	4	7	4	11	10	15	2	15	5	10	6	9
Centaurea solstitialis L.	5	13	3	9	5	11	5	13	8	11	3	6	4	7	7	14	5	15	6	15	8	13	7	9
Centaurea stenolepis A. Kerner	8	15	4	8	5	10	5	9	6	10	3	7	5	8	10	12	10	13	8	12	9	11	6	9
Centaurea sterilis Stev.	3	10	3	7	7	12	5	11	8	11	1	8	3	7	10	11	10	11	7	10	10	11	7	9
Centaurea steveniana Klokov	4	11	7	11	8	11	6	16	3	8	1	4	3	6	11	12	9	10	8	9	9	10	8	9
Centaurea stoebe L.	6	11	4	11	7	12	5	12	6	11	1	7	3	8	7	11	11	14	6	11	8	10	6	9
Centaurea sumensis Kalen.	6	14	3	9	5	10	5	10	5	9	2	7	3	6	7	10	10	13	8	10	6	9	5	9
Centaurea taliewii Kleop.	5	11	8	9	7	11	7	1	8	11	3	6	4	7	8	10	9	12	10	14	6	9	8	9
Centaurea ternopoliensis Dobroc.	8	14	4	7	7	11	5	11	8	11	3	6	4	7	8	9	11	12	8	10	8	9	7	9
Centaurea trichocephalla Bieb.	3	14	5	10	7	12	5	14	6	11	2	8	4	8	7	11	10	11	9	14	6	9	6	9
Centaureum erythraea Rafn	8	16	7	10	5	13	5	13	6	9	3	8	4	8	6	13	9	16	1	12	6	14	7	9
Centaureum meyeri (Bunge)Druce	9	17	9	11	7	13	9	17	7	9	3	9	7	10	6	13	3	15	6	17	6	13	8	9
Centaureum pulchellum (Sw.)Druce	9	16	9	11	5	12	3	13	5	10	3	9	6	10	6	12	3	15	5	11	5	14	8	9
Centaureum spicatum (L.)Fritsch	5	15	9	11	8	13	11	17	4	9	2	6	4	9	10	14	3	10	7	17	10	14	8	9
Centaureum uliginosum (Waldst. et Kit.)G.Beck ex Romm.	12	6	8	10	5	10	7	13	6	9	4	9	7	10	6	10	11	16	2	11	6	11	8	9
Centranthus calcitrapa (L.)DuRoi.	3	9	2	5	7	11	7	11	10	13	1	5	3	6	11	13	7	10	5	9	10	12	8	9
Centunculus minimus L.	10	17	9	11	3	7	1	5	1	8	1	7	3	7	7	5	1	16	5	11	7	14	8	9
Cephalanthera damasonium (Mill.)Druce	8	13	4	7	6	11	4	9	7	10	3	7	5	8	6	12	3	15	7	11	8	13	3	7
Cephalanthera longifolia (L.)Fritsch	8	13	4	7	7	11	5	9	6	10	3	7	5	8	7	14	3	16	3	11	6	13	3	7

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Cephalanthera rubra</i> (L.)Rich.	8	13	4	6	8	12	5	9	6	10	3	8	5	8	5	14	10	14	5	12	7	12	3	7
<i>Cephalaria coriacea</i> (Willd.)Steud.	4	13	3	7	7	12	7	12	9	13	2	8	4	6	10	11	10	12	7	9	9	10	7	9
<i>Cephalaria transsylvanica</i> (L.)Roem. et Schult.	5	13	3	8	7	12	7	12	9	12	3	7	4	7	8	12	8	12	6	12	8	10	7	9
<i>Cephalaria uralensis</i> (Murr.)Roem. et Schult.	4	10	3	7	6	13	5	12	9	13	4	9	4	6	9	11	6	13	9	14	6	10	6	9
<i>Cerastium arvense</i> L.	3	13	4	11	5	11	3	10	9	13	3	7	3	7	4	14	3	15	3	17	1	12	6	9
<i>Cerastium balearicum</i> F. Herm.	3	10	5	9	8	11	8	10	7	11	1	6	4	7	10	14	7	11	6	11	10	13	8	9
<i>Cerastium biebersteinii</i> D&c.	6	13	4	9	6	12	5	11	9	13	1	8	5	7	7	10	12	13	7	8	9	9	7	9
<i>Cerastium crassiusculum</i> Klokov	3	9	3	7	5	11	5	13	7	10	2	4	3	6	10	11	10	13	8	10	9	10	8	9
<i>Cerastium fontanum</i> Baumg.	10	16	2	7	3	7	3	10	1	5	4	9	5	10	4	6	14	18	1	7	7	10	5	8
<i>Cerastium glomeratum</i> Thuill.	6	16	4	9	4	9	5	9	4	9	3	9	4	8	6	14	5	14	5	11	7	13	7	8
<i>Cerastium heterotrichum</i> Klokov	3	10	5	10	8	11	9	16	7	11	1	6	4	6	9	11	10	11	9	11	8	10	8	9
<i>Cerastium holosteoides</i> Fries	10	17	2	7	5	12	5	11	5	8	3	9	5	11	4	14	3	15	1	17	1	14	3	7
<i>Cerastium kiovienne</i> Klokov	3	9	3	7	3	7	1	5	1	5	3	5	3	6	6	14	8	15	3	17	7	12	8	9
<i>Cerastium lanatum</i> Lam.	7	15	5	9	8	11	4	7	10	12	1	4	3	6	2	5	15	18	2	7	2	8	8	9
<i>Cerastium lucorum</i> (Schur) Möschl	12	17	1	5	6	9	6	9	5	9	7	11	9	13	7	12	11	15	4	9	8	11	5	9
<i>Cerastium nemorale</i> M. Bieb.	10	16	5	8	8	11	8	11	6	9	5	8	5	8	9	11	10	12	10	12	9	10	5	8
<i>Cerastium odessanum</i> Klokov	3	9	3	11	7	11	9	13	9	12	2	4	3	6	6	14	8	15	3	17	7	12	8	9
<i>Cerastium perfoliatum</i> L.	3	6	6	9	8	11	7	9	7	10	4	7	4	7	9	14	5	8	10	17	9	13	8	9
<i>Cerastium pseudobulgare</i> Klokov	4	9	7	10	5	13	5	18	2	7	1	6	3	6	9	11	10	11	10	12	8	12	8	9

Cerastium pumilum Curt.	5	9	6	9	5	9	3	6	5	8	2	5	3	6	6	14	11	15	4	10	8	12	7	9
Cerastium rotundatum Schur	5	13	5	10	5	10	4	11	3	11	1	6	5	7	7	13	10	16	1	11	7	12	7	9
Cerastium schmalhauseni Pacz.	4	9	7	11	5	8	1	4	2	7	1	5	3	6	10	10	10	10	9	10	9	9	8	9
Cerastium sylvaticum Waldst. et Kit	13	18	1	3	7	10	7	11	5	9	7	11	8	12	7	11	12	14	7	10	9	11	4	7
Cerastium syvaschicum Kleop.	3	9	3	7	9	12	9	17	7	10	2	4	3	6	6	14	8	15	3	17	7	12	7	9
Cerastium tauricum Spreng.	3	12	4	9	7	11	6	12	7	11	1	5	3	7	8	13	8	14	6	11	8	11	7	9
Cerastium ucrainicum Pacz. ex Klokov	3	10	4	11	7	13	5	16	5	9	1	8	3	6	6	14	8	15	8	10	7	12	7	9
Cerasus avium (L.) Moench	8	15	4	6	5	11	5	9	5	9	3	9	5	8	9	13	10	15	2	11	9	11	2	6
Cerasus fruticosa (Pall.) Woron.	5	13	4	7	7	12	5	10	7	11	3	7	4	7	7	11	9	13	6	14	6	10	6	9
Cerasus mahaleb (L.) Mill.	5	11	4	7	8	11	7	11	6	10	3	7	4	7	8	14	6	15	6	12	7	12	5	9
Ceratocarpus arenarius L.	3	9	9	11	5	12	7	14	7	11	1	5	3	7	7	11	1	11	10	17	4	10	8	9
Ceratocephala falcata (L.) Pers.	1	5	8	11	9	13	8	13	7	11	1	6	3	6	10	15	7	15	6	17	8	11	8	9
Ceratocephala testiculata (Crantz) Bess.	1	9	8	11	9	12	4	15	7	11	3	7	3	6	7	14	9	12	12	17	6	10	8	9
Ceratoides papposa Botsch. et Ikonn.	1	8	7	11	9	13	11	16	8	13	1	5	4	6	7	12	1	11	9	17	11	15	8	9
Ceratophyllum demersum L.	20	23	1	3	7	12	7	12	4	9	7	10	13	15	4	17	1	20	1	17	1	15	5	8
Ceratophyllum platyacanthum Cham.	21	23	1	3	8	11	7	12	4	9	5	10	13	15	7	10	11	14	7	16	7	10	5	8
Ceratophyllum submersum L.	21	23	1	3	7	12	3	9	4	9	4	8	13	15	7	11	1	20	4	11	5	11	5	8
Ceratophyllum tanaiticum Sapjeg.	19	23	1	3	7	11	7	11	5	9	5	9	13	15	9	11	9	13	10	15	6	9	5	8
Cerintho minor L.	5	13	3	6	5	11	5	11	7	12	3	6	3	7	7	13	6	15	3	15	6	12	6	9
Ceterach officinarum Willd.	2	8	2	6	7	11	3	7	10	13	1	5	3	6	9	14	4	15	2	16	9	13	7	9
Chaenorhinum minus (L.) Lange	8	13	2	9	7	11	5	13	7	13	3	7	3	6	6	11	5	11	6	10	5	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Chaerophyllum aromaticum</i> L.	9	15	3	7	5	12	3	9	4	8	7	11	5	9	5	13	11	14	4	10	5	10	5	8
<i>Chaerophyllum bulbosum</i> L.	7	16	3	7	7	11	5	9	4	8	7	10	5	10	6	11	11	14	5	11	7	10	4	8
<i>Chaerophyllum hirsutum</i> L.	10	17	2	8	5	11	4	9	4	8	5	10	6	11	7	11	10	16	6	10	9	12	4	8
<i>Chaerophyllum maculatum</i> Willd. ex DC.	8	15	3	8	6	12	4	9	4	7	5	10	5	9	7	14	6	15	3	16	9	12	4	7
<i>Chaerophyllum prescottii</i> D&c.	7	15	3	8	8	11	7	9	4	8	5	11	5	9	3	11	6	14	7	16	5	10	6	8
<i>Chaerophyllum temulum</i> L.	9	15	3	7	5	11	5	9	4	7	7	11	5	9	5	11	11	16	2	12	7	12	4	8
<i>Chaeturus marrubiastrum</i> (L.) Reichenb.	9	17	7	9	8	12	4	9	4	7	5	10	5	9	7	11	8	14	7	17	6	11	5	8
<i>Chamaecytisus albus</i> (Hacq.) Rothm.	5	12	3	7	7	11	6	11	9	12	3	6	5	8	8	12	11	13	8	11	9	10	6	9
<i>Chamaecytisus austriacus</i> (L.) Link	7	12	3	7	5	11	2	6	4	10	3	7	4	8	7	11	10	13	7	13	7	11	6	9
<i>Chamaecytisus blockianus</i> (Pawl.) Klaskova	5	12	3	7	7	11	6	11	8	11	3	6	5	8	8	9	12	13	8	10	8	10	6	9
<i>Chamaecytisus borysthenicus</i> (Grun.) Klaskova	5	14			5	12	5	12	8	10	1	6												
<i>Chamaecytisus podolicus</i> (Blocki) Klaskova	5	12	3	7	7	11	6	11	9	12	3	6	5	8	8	9	12	13	8	9	8	9	6	9
<i>Chamaecytisus polytrichus</i> (Bieb.) Rothm.	5	13	3	6	7	12	5	11	8	11	2	8	4	8					7	10	9	9	8	9
<i>Chamaecytisus ratibonensis</i> (Schaeff.) Rothm.	5	13	3	7	9	11	8	12	6	11	2	7	3	7	7	10	10	14	7	14	6	10	6	9
<i>Chamaecytisus ruthenicus</i> (Fisch. ex Woloszcz.) Klaskova	5	13	3	7	5	12	5	12	4	10	3	7	4	8	6	11	10	14	7	14	6	10	6	9
<i>Chamaecytisus wulfii</i> (V. Krecz.) Klaskova	6	11	3	7	9	11	9	12	10	12	3	7	4	7	7	9	11	13	7	8	7	9	7	9
<i>Chamaecytisus zingeri</i> (Nenuk.) Klaskova	5	13	3	7	5	8	2	8	4	8	2	8	3	7	6	11	11	14	6	10	6	8	6	9
<i>Chamaedaphne calyculata</i> (L.) Moench	15	19	1	3	1	4	1	3	2	6	1	3	9	12	3	8	10	14	7	17	6	15	5	8

Chamaerion angustifolium (L.) Holub	8	17	3	10	3	9	2	8	2	9	3	7	3	8	3	14	9	18	1	17	1	12	6	9
Chamaerion dodonaei (Vill.) Holub	5	15	5	11	5	12	6	12	7	12	2	6	4	7	8	13	11	13	6	10	9	11	6	9
Chamaespartium sagittale (L.) P. Gibbs	5	14	4	7	3	7	3	8	3	9	1	5	3	7	7	12	12	15	4	10	9	11	6	9
Chamomilla recutita (L.) Rauschert	6	15	7	10	5	12	5	15	2	9	3	9	4	7	4	12	11	15	4	12	7	12	7	9
Chamomilla suaveolens (Pursh) Rydb.	8	16	5	9	6	10	5	11	9	12	5	10	4	7	3	13	6	15	2	12	1	14	7	9
Cheilanthes persica (Bory) Mett. ex Kuhn	2	10	2	6	7	11	3	7	9	13	2	5	3	6	10	15	7	12	4	12	10	14	8	9
Cheilanthes pteridioides (Reichard) C. Chr.	3	8	3	6	3	7	3	9	2	5	2	6	3	6	10	15	5	12	4	11	10	13	7	9
Cheiranthus cheiri L.	3	9			8	11			8	11	1	4	4	8	7	14	10	16	2	9	10	13	7	9
Chelidonium majus L.	8	15	3	9	5	11	4	10	4	9	7	11	3	8	4	14	10	16	2	16	6	13	4	8
Chenopodium album L.	3	16	3	11	5	13	3	15	4	8	5	10	3	9	4	14	2	20	1	17	1	15	7	9
Chenopodium bonus-henricus L.	7	15	3	8	6	10	5	9	4	9	7	10	5	9	6	11	10	18	2	12	9	12	7	9
Chenopodium botrys L.	5	14	4	9	5	11	4	12	3	11	1	9	3	7	7	14	5	14	7	17	5	11	7	9
Chenopodium chenopodioides (L.) Aellen	9	17	7	11	9	15	11	17	3	9	3	9	8	11	6	14	3	14	6	17	5	13	8	9
Chenopodium foliosum Aschers.	6	15	3	9	5	11	6	12	4	11	5	9	5	9	6	14	3	18	3	11	4	13	7	9
Chenopodium glaucum L.	6	15	3	11	7	13	8	15	4	9	7	10	5	9	3	13	3	18	3	17	3	11	7	9
Chenopodium hybridum L.	6	16	3	11	7	11	7	11	4	9	7	10	3	7	6	13	3	18	3	17	1	12	5	9
Chenopodium opulifolium Schrad. ex Koch. et Ziz.	5	13	4	9	5	11	5	11	4	9	4	9	5	7	8	14	5	13	8	17	7	13	7	9
Chenopodium polyspermum L.	8	16	3	11	5	9	5	9	4	9	5	10	5	9	4	13	3	18	3	14	4	12	6	9
Chenopodium rubrum L.	3	15	3	11	5	10	7	13	4	9	7	10	3	9	4	12	3	18	3	11	5	13	7	9
Chenopodium succicium J. Murr.	6	15	4	9	5	10	5	11	4	9	5	10	5	7	4	10	9	18	6	12	1	11	7	9
Chenopodium urticum L.	5	16	4	11	5	11	5	11	4	9	5	10	3	7	6	13	3	15	4	11	4	13	7	9
Chenopodium vulvaria L.	5	16	4	10	5	10	5	9	4	9	7	10	5	7	7	14	3	16	2	15	4	13	7	9
Chimaphila umbellata (L.) W. Barton	9	15	4	6	5	7	3	7	4	9	2	6	5	8	5	9	11	14	5	13	3	9	1	5
Chondrilla graminea Bieb.	8	13	5	11	5	9	5	11	4	7	2	7	4	7	7	10	10	12	12	14	6	8	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Chondrilla juncea</i> L.	3	11	5	11	5	9	5	11	4	11	2	7	4	7	7	13	4	14	2	17	6	13	6	9
<i>Chondrilla latifolia</i> Bieb.	3	11	5	11	5	9	5	11	4	9	2	7	4	7	7	13	5	14	6	13	8	12	6	9
<i>Chorispora tenella</i> (Pall.) DC.	3	10	7	11	8	13	7	16	7	11	3	7	5	9	8	14	1	13	10	17	7	11	7	9
<i>Chrysanthemum segetum</i> L.	8	15	4	7	5	9			6	9	3	9	5	8	5	13	6	16	4	11	9	13	6	9
<i>Chrysopogon gryllus</i> (L.) Trin.	3	11	8	11	6	11	7	14	6	11	2	6	3	7	10	13	5	11	6	16	9	12	7	9
<i>Chrysosplenium alpinum</i> Schur	11	19	2	5	5	8	2	6	5	8	6	9	9	12	6	11	13	18	1	7	8	9	5	8
<i>Chrysosplenium alternifolium</i> L.	11	19	2	5	6	11	3	9	5	8	3	7	9	12	2	11	11	15	3	17	1	11	1	6
<i>Cicerbita alpina</i> (L.) Wallr.	9	17	2	5	6	9	3	9	4	8	5	10	9	12	4	6	16	18	2	7	7	9	4	8
<i>Cichorium intybus</i> L.	4	16	7	9	7	12	5	12	4	8	3	9	4	7	5	13	5	16	1	17	6	14	6	9
<i>Cicuta virosa</i> L.	14	19	5	9	5	8	4	10	5	8	3	9	8	11	3	11	10	15	3	17	1	11	6	9
<i>Cimicifuga europaea</i> Schipez.	8	15	3	7	8	12	4	7	4	11	5	10	5	9	6	9	12	15	6	17	2	10	2	7
<i>Circaea alpina</i> L.	10	17	2	5	5	8	3	7	4	7	3	9	8	10	6	13	11	18	3	17	2	10	2	6
<i>Circaea intermedia</i> Ehrh.	9	17	2	5	7	10	3	7	4	6	5	9	8	10	7	11	7	11	1	8	8	11	2	6
<i>Circaea lutetiana</i> L.	9	17	3	7	6	10	3	9	4	8	5	10	8	10	6	11	3	18	2	13	5	12	2	6
<i>Cirsium alatum</i> (S.G. Gmel.) Bobr.	5	16	7	10	8	12	11	16	5	8	3	9	7	10	8	11	10	12	10	12	8	10	7	9
<i>Cirsium arvense</i> (L.) Scop.	5	16	3	7	5	12	5	12	4	8	5	10	4	8	4	13	5	17	4	17	3	12	7	9
<i>Cirsium canum</i> (L.) All.	11	18	6	9	5	12	6	15	4	7	5	9	5	9	7	12	10	14	4	10	4	10	7	9
<i>Cirsium decussatum</i> Janka	7	12	7	10	5	8	3	6	5	8	2	5	4	7	7	9	12	13	8	10	8	9	7	9
<i>Cirsium eristhales</i> (Jacq.) Scop.	9	16	2	7	5	12	5	9	4	10	3	7	7	10	7	11	12	15	6	9	7	11	6	8
<i>Cirsium esculentum</i> (Stev.) C.A. Mey.	9	16	7	10	10	13	9	16	4	10	3	7	7	10	6	11	8	12	5	9	3	8	7	9
<i>Cirsium heterophyllum</i> (L.) Hill	11	17	4	9	5	8	3	9	4	10	5	9	7	11	3	9	11	18	5	10	3	11	5	8
<i>Cirsium laniflorum</i> (M. Bieb.) M.Bieb.	8	14	3	7	8	12	7	12	6	11	4	7	4	9	9	11	10	12	7	10	9	10	5	9



Cirsium laniflorum (Bieb.) Fisch.	7	14	3	7	7	7	11	7	11	6	11	3	7	4	9	9	11	10	12	7	10	9	10	5	9
Cirsium oleraceum (L.) Scop.	10	19	3	9	7	11	3	9	3	3	7	3	9	9	12	5	11	10	15	1	15	5	11	4	9
Cirsium palustre (L.) Scop.	11	19	3	9	4	9	3	9	3	3	7	2	7	9	12	5	11	11	18	7	11	5	12	5	9
Cirsium pannonicum (L. fl.) Link	5	13	6	9	7	12	5	13	8	11	3	7	5	9	7	11	11	13	6	10	7	10	6	9	
Cirsium polonicum (Petrauk) Iljin	8	16	3	7	8	12	8	13	5	10	3	7	4	9	6	9	11	15	5	10	8	12	7	9	
Cirsium rivulare (Jacq.) All.	11	19	3	9	7	11	5	8	4	7	3	9	9	12	6	9	12	14	7	11	8	9	7	9	
Cirsium setosum (Willd.) Bess.	8	16	4	9	7	10	6	11	7	9	4	10	4	9	3	10	5	13	5	15	6	10	7	9	
Cirsium ucrainicum Bess.	5	12	3	7	7	8	5	11	4	5	3	8	5	9	8	10	10	12	10	14	6	10	6	9	
Cirsium vulgare (Savi) Ten.	8	16	3	7	5	9	5	10	6	11	7	10	5	9	5	13	6	18	3	11	5	13	7	9	
Cirsium waldesteinii Rouy	9	16	4	8	5	8	3	9	6	10	3	8	6	10	5	8	15	17	6	7	6	8	6	9	
Cistus tauricus C. Presl	3	8	2	6	9	12	8	13	9	13	2	5	3	6	10	13	7	11	7	10	10	11	5	9	
Cladium mariscus (L.) Pohl	16	19	7	10	5	11	5	11	7	11	3	10	7	11	5	13	9	16	1	13	7	14	6	9	
Claudia aprica (Steph.) Korn.-Tr.	3	8	6	9	9	11	7	10	11	13	1	5	3	7	6	10	5	13	12	17	5	8	8	9	
Cleistogenes bulgarica (Borrm.) Keng	5	11	6	8	7	12	6	12	7	12	3	8	3	7	8	12	10	12	8	12	9	10	8	9	
Cleistogenes serotina (L.) Keng	3	10	6	8	7	12	6	12	7	12	1	8	3	7	11	13	6	11	6	15	9	12	7	9	
Cleistogenes squarrosa (Trin.) Keng	4	13	9	11	7	12	5	12	5	8	1	8	3	6	6	11	5	10	10	17	4	9	8	9	
Clematis integrifolia L.	5	11	6	8	7	11	9	12	9	12	4	9	5	8	6	12	11	13	9	17	5	10	7	9	
Clematis orientalis L.	5	12	7	11	8	13	10	16	5	8	2	6	4	7	8	12	1	10	10	17	7	11	5	9	
Clematis pseudoflammula Schmalh. ex Lipsky	5	12	6	8	7	11	9	12	7	12	3	7	4	7	8	10	11	12	10	12	9	10	5	9	
Clematis recta L.	7	13	6	8	6	10	5	10	7	11	4	8	6	8	7	12	10	14	7	13	6	10	5	9	
Clematis vitalba L.	10	16	3	9	7	10	7	11	7	10	7	10	6	11	8	13	10	15	2	12	8	12	4	8	
Cleome ornithopodioides L.	3	7	8	11	11	13	11	16	4	9	1	4	3	7	10	12	3	12	9	17	8	11	8	9	

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Clinopodium vulgare</i> L.	7	14	3	7	5	11	2	9	7	10	1	7	4	8	4	11	6	15	2	13	6	13	6	9
<i>Clypeola jonthlaspi</i> L.	3	9	6	9	9	12	9	14	9	13	1	6	4	7	10	14	1	14	6	17	9	13	7	9
<i>Cnidium dubium</i> (Schkuhr) Thell.	11	19	1	5	5	12	4	13	4	7	3	7	7	11	5	11	5	13	5	15	5	10	6	9
<i>Cochlearia polonica</i> E. Froehl	11	19	2	6	3	7	5	9	6	10	4	7	7	13	8	9	12	14	7	9	8	8	7	9
<i>Coeloglossum viride</i> (L.) C.Hartm.	8	16	3	7	3	8	3	8	4	8	1	7	5	9	3	12	11	18	1	17	1	12	5	8
<i>Colchicum ancyrense</i> B.L.Burtt	8	15	3	7	5	11	5	9	4	11	3	9	4	9	7	10	8	11	8	10	9	11	7	9
<i>Colchicum autumnale</i> L.	9	17	3	8	5	10	5	9	4	7	4	8	5	9	8	12	11	15	3	10	9	12	5	9
<i>Colchicum umbrosum</i> Stev.	8	14	5	9	7	11	7	12	5	9	3	9	4	8	9	11	7	13	6	13	9	11	3	7
<i>Colutea cilicica</i> Boiss. et Bal.	5	13	4	7	7	12	5	12	8	11	1	8	4	7	11	14	5	11	9	17	9	13	5	9
<i>Comarum palustre</i> L.	15	21	2	4	4	7	2	5	1	5	1	5	12	15	1	10	11	16	1	17	1	11	5	8
<i>Comperia comperana</i> (Stev.) Aschers.et Graebn.	6	12	3	6	7	12	5	12	8	11	2	8	4	9	11	14	5	10	8	16	10	12	5	9
<i>Conioselinum tataricum</i> Hoffm.	10	15	2	6	6	9	4	7	7	10	4	7	6	9	4	9	12	15	2	17	1	9	3	6
<i>Conium maculatum</i> L.	8	15	4	9	5	9	6	11	2	6	7	11	5	9	4	13	5	16	1	17	5	15	6	9
<i>Conringia austriaca</i> (Jacq.) Sweet	5	10	7	11	9	13	9	15			1	4	4	9	11	12	10	14	8	12	10	11	8	9
<i>Conringia clavata</i> Boiss.	2	9	7	10	9	11	9	13	2	12	1	5	5	8	11	13	5	10	10	17	9	11	8	9
<i>Conringia orientalis</i> (L.) Dumort.	4	9	5	9	8	11	5	11	7	11	3	6	5	9	7	12	1	14	6	17	6	12	6	9
<i>Consolida ajacis</i> (L.) Schur	6	10	7	9	7	11	6	11	7	11	4	8	5	7	9	14	1	15	3	12	8	13	7	9
<i>Consolida divaricata</i> (Ledeb.) Schroding.	6	9	7	9	6	10	5	12	7	10	1	8	5	7	9	12	10	13	7	13	8	11	7	9
<i>Consolida orientalis</i> (J. Gay) Schroding.	7	11	4	9	7	10	7	12	7	11	5	10	5	7	8	14	6	17	6	17	7	12	6	9
<i>Consolida paniculata</i> (Host) Schur	6	11	7	9	6	12	6	14	4	10	2	5	5	7	8	12	9	12	8	14	8	11	7	9

Consolida regalis S. F. Gray	7	11	5	8	8	11	5	11	5	9	3	8	5	7	5	12	10	14	4	12	3	14	7	9
Convallaria majalis L.	8	16	4	7	5	12	3	8	4	10	3	7	4	7	5	12	11	16	1	12	7	11	2	7
Convolvulus arvensis L.	4	16	2	8	5	13	3	15	4	10	3	7	4	7	6	15	3	16	1	17	4	15	6	9
Convolvulus cantabrica L.	3	11	2	7	7	11	9	13	8	12	1	8	4	7	10	14	6	11	6	12	9	13	8	9
Convolvulus holosericeus Bieb.	6	11	3	7	7	12	5	11	9	12	2	8	4	7	11	14	6	10	6	11	9	11	8	9
Convolvulus lineatus L.	5	11	3	9	8	13	14	16	7	12	2	8	4	8	9	14	5	12	6	17	6	12	8	9
Convolvulus tauricus (Bormm.)Juz.	5	11	3	7	7	12	9	12	9	12	1	8	4	7	9	10	10	11	7	8	9	9	8	9
Corallorhiza trifida Chatel.	9	15	1	5	3	7	5	10	5	9	5	9	5	8	2	12	11	18	2	17	1	11	1	5
Cotisperrum hyssopifolium L.	5	12	10	11	5	10	5	10	3	8	1	5	3	6	6	10	9	13	9	17	3	9	7	9
Cotisperrum marschallii Stev.	5	13	10	11	3	8	3	9	2	5	1	5	3	6	7	11	9	14	9	14	6	11	8	9
Cotisperrum nitidulum Klokov	5	13	9	11	3	8	3	8	2	6	1	5	3	7	7	11	5	13	8	17	7	11	8	9
Cornus mas L.	7	14	3	7	7	11	5	9	7	11	3	7	5	8	9	13	10	14	6	12	9	12	4	8
Coronaria flos-cuculi (L.) A. Br.	11	18	5	10	5	10	4	9	3	9	4	8	7	11	4	12	12	18	1	14	5	12	6	9
Coronilla coronata L.	6	12	3	8	8	12	4	11	9	12	1	6	4	7	8	11	10	14	7	10	9	11	6	9
Coronilla cretica L.	6	14	3	7	8	12	6	12	8	12	1	6	3	7	11	14	6	10	6	16	9	13	6	9
Coronilla elegans Panc.	8	13	3	7	7	11	5	9	7	9	3	7	5	8	8	12	11	13	8	11	9	10	5	8
Coronilla emeroides Boiss. et Sprun.	5	12	3	8	8	12	5	11	9	11	1	6	4	7	10	14	5	13	5	12	10	12	6	9
Coronilla scorpioides (L.) Koch	3	10	6	9	7	12	6	12	9	11	1	8	3	7	11	14	5	11	6	10	9	12	7	9
Coronilla varia L.	5	14	3	7	7	12	3	11	8	12	1	7	4	7	6	13	6	15	2	13	6	12	6	9
Coronopus squamatus (Forsk.) Aschers.	4	12	7	11	6	11	7	16			5	11	6	9	6	14	3	15	9	13	3	10	7	9
Cortusa matthioli L.	10	17	2	6	5	11	3	8	6	12	3	9	6	8	3	9	1	16	6	11	5	9	5	8
Corydalis capnoides (L.) Pers.	10	14	4	7	5	7	2	7			1	5	3	6	5	11	14	18	4	7	4	9	4	7

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Corydalis cava</i> (L.) Schweigg. et Koerte	8	15	5	7	7	11	5	9	6	10	8	11	5	8	7	12	12	14	6	12	7	11	3	7
<i>Corydalis intermedia</i> (L.) Merat	8	15	5	7	6	11	4	9	7	10	5	10	5	8	4	11	12	15	3	12	7	10	3	7
<i>Corydalis marschalliana</i> Pers.	9	12	5	7	7	11	5	9	6	10	5	9	5	8	7	10	11	13	9	12	6	9	3	7
<i>Corydalis paezoskii</i> N. Busch	8	16	5	7	6	9	5	9	7	10	3	8	5	8	9	11	10	12	7	11	8	10	3	7
<i>Corydalis solida</i> (L.) Clairv.	8	15	5	7	5	8	4	9	6	10	5	11	5	8	6	12	12	14	5	14	5	11	3	7
<i>Corylus avellana</i> L.	8	16	4	6	5	11	4	9	5	9	6	11	6	9	6	12	12	17	1	10	5	12	2	6
<i>Coryneforus canescens</i> (L.) Beauv.	5	13	3	9	2	7	1	5	3	7	1	5	3	6	6	12	12	15	3	9	9	13	8	9
<i>Cotinus coggygia</i> Scop.	5	12	3	6	7	11	5	9	7	11	2	7	4	7	9	14	6	13	8	12	8	12	5	9
<i>Cotoneaster integriramus</i> Medik.	5	12	3	6	6	11	4	10	8	12	2	7	4	7	6	12	11	14	4	11	7	11	6	9
<i>Cotoneaster melanocarpus</i> Fisch. ex Blytt	5	12	3	6	7	12	5	12	8	12	1	8	4	7	4	11	5	14	5	17	3	11	6	9
<i>Cotoneaster tauricus</i> Pojark.	5	13	3	6	7	11	5	12	9	12	2	8	4	7	8	10	11	13	8	9	9	10	6	9
<i>Crambe buschii</i> (O.E. Schulz) Stank.	4	9	6	9	8	12	8	15	9	13	3	7	4	7	9	11	9	11	11	13	7	10	8	9
<i>Crambe grandiflora</i> DC.	4	9	7	11	9	12	10	15	9	13	1	3	3	7	11	12	10	11	8	9	9	10	8	9
<i>Crambe koktebelica</i> (Junge) N. Busch	5	9	7	11	9	13	9	15	4	12	1	6	3	10	11	12	9	10	8	9	9	10	8	9
<i>Crambe pinnatifida</i> R. Br.	3	10	7	11	9	13	10	15	11	13	1	3	3	7	10	12	9	10	9	11	9	10	8	9
<i>Crambe pontica</i> Stev. ex Rupr.	5	12	8	11	8	15	8	18	6	11	1	6	3	10	6	11	10	17	3	10	9	11	8	9
<i>Crambe steveniana</i> Rupr.	3	10	7	11	9	12	10	15	1	13	1	6	3	8	10	12	9	10	9	11	8	10	8	9
<i>Crambe tataria</i> Sebeok.	4	10	5	9	8	11	7	11	8	11	3	7	4	7	6	11	9	13	9	15	5	10	7	9
<i>Crataegus azarella</i> Griseb	6	16	8	10	5	10	5	11	4	7	3	7	4	7	11	12	11	13	6	10	10	12	6	9
<i>Crataegus ceratocarpa</i> Kossyeh	7	14	4	7	7	12	7	13	9	11	4	8	4	8	10	11	9	11	8	9	10	10	6	9

<i>Crataegus curvisepala</i> Lindm.	8	15	4	9	5	11	4	10	4	9	3	8	4	8	6	11	10	14	3	12	7	11	5	9
<i>Crataegus laevigata</i> (Poir.) DC.	8	15	6	9	5	11	5	9	4	7	3	9	5	8	7	11	10	15	3	12	9	12	6	8
<i>Crataegus microphylla</i> C. Koch	8	14			5	11	4	10			3	8												
<i>Crataegus monogyna</i> Jacq.	7	15	4	7	7	11	5	9	6	11	3	7	4	8	6	14	9	17	2	14	7	13	5	9
<i>Crataegus orientalis</i> Pall. ex Bieb.	7	14	4	7	7	11	7	12	7	12	3	8	3	7	10	13	10	13	7	12	9	12	5	9
<i>Crataegus pentagyna</i> Waldst. et Kit.	8	14	5	9	7	10	6	10	6	11	3	8	4	7	8	12	9	12	7	14	7	10	5	9
<i>Crataegus pojarkovia</i> Kossyeh	6	11	6	9	9	12	7	12	5	9	3	7	4	7	9	10	10	12	8	10	9	10	6	9
<i>Crataegus tournefortii</i> Griseb.	6	11	7	9	9	12	7	12	3	6	3	6	4	7	11	12	10	12	8	10	10	12	6	9
<i>Crepis capillaris</i> (L.) Wallr.	5	15	5	9	5	9	5	9	4	8	2	7	5	9	6	12	12	15	6	11	8	11	5	9
<i>Crepis conyzifolia</i> (Gouan) A.Kerner	8	15	4	7	4	7	4	9	3	7	4	7	4	8	6	8	14	17	6	8	7	9	7	9
<i>Crepis lodomeriense</i> Bess.	8	14	5	9	4	7	5	9	4	9	4	7	4	8	7	12	11	15	3	10	7	11	5	9
<i>Crepis mollis</i> (Jacq.) Aschers.	8	16	5	9	5	9	5	9	4	8	3	8	7	11	7	9	12	15	7	14	5	10	6	9
<i>Crepis paludosa</i> (L.) Moench	10	19	3	9	7	11	3	8	4	7	6	11	9	12	4	11	12	17	7	11	5	11	5	9
<i>Crepis pannonica</i> (Jacq.) C.Koch	7	15			7	11	7	11	4	8	4	7	4	7	7	12	9	12	8	13	6	9	6	8
<i>Crepis praemorsa</i> (L.) Tausch	5	14	5	9	5	10	5	11	4	8	2	7	4	7	7	10	10	14	1	17	2	12	5	9
<i>Crepis pulchra</i> L.	5	11	3	7	7	13	7	13	4	9	2	8	4	7	9	13	5	14	5	17	7	11	7	9
<i>Crepis ramosissima</i> D'Urv	5	12	5	10	5	12	5	12	4	7	1	6	3	7	9	11	10	11	8	11	8	9	7	9
<i>Crepis sibirica</i> L.	9	14	5	9	5	11	5	10	4	8	2	7	4	7	3	11	8	14	5	10	3	9	6	9
<i>Crepis tectorum</i> L.	3	16	5	9	5	12	3	15	4	8	3	9	4	7	3	11	9	17	1	17	4	12	6	9
<i>Crimataria linosyris</i> (L.) Less.	5	12	3	7	7	11	6	11	9	12	2	6	4	7	7	13	10	14	4	12	8	12	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NH	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Crinitaria villosa</i> (L.) Grossh	3	10	3	9	8	13	9	15	7	11	2	8	4	8	9	11	6	13	6	17	6	11	8	9
<i>Crocus angustifolius</i> Weston	5	14	3	7	7	11	5	12	8	11	3	8	4	8	9	12	7	12	7	12	9	11	5	9
<i>Crocus banaticus</i> J. Gay	9	16	4	9	5	9	4	8	4	7	5	9	5	9	9	11	11	13	8	11	8	10	4	7
<i>Crocus heuffelianus</i> Herb.	7	15	3	9	4	9	4	9	5	9	3	7	4	9	6	11	12	16	6	11	7	10	4	9
<i>Crocus pallasii</i> Goldb.	5	14	3	7	8	12	6	12	9	11	3	8	4	8	10	13	6	11	7	11	8	10	6	9
<i>Crocus reticulatus</i> Stev. ex Adam	8	15	3	8	5	9	6	11	6	10	3	8	4	9	9	12	10	14	8	12	7	10	5	9
<i>Crocus speciosus</i> Bieb.	6	15	3	7	6	12	5	12	8	12	3	8	4	8	8	11	5	12	7	17	9	10	6	9
<i>Crocus tauricus</i> (Trautv.) Puring	7	13	3	6	7	11	5	11	9	12	3	8	4	7	8	10	11	13	7	10	9	10	8	9
<i>Crucianella oxyloba</i> Janka	6	12	3	6	7	12	5	12	8	11	3	6	4	7	10	11	8	10	7	9	9	11	8	9
<i>Cruciata glabra</i> (L.) Ehrend.	8	17	4	7	5	9	3	10	5	10	4	9	5	8	7	12	11	14	5	9	8	12	6	8
<i>Cruciata laevipes</i> Opiz	8	15	3	6	7	11	6	12	7	10	5	9	4	7	7	13	11	15	5	9	8	12	6	8
<i>Cruciata pedemontana</i> (Bell.) Ehrend.	5	13	4	9	6	13	5	15	6	9	3	8	6	9	9	14	5	12	6	14	9	12	6	9
<i>Cruciata taurica</i> (Pall.ex Willd.) Soo	6	13	3	6	6	12	5	11	9	12	3	8	3	7	10	13	6	12	6	12	10	11	7	9
<i>Crupina vulgaris</i> Cass.	3	10	6	8	7	12	5	12	4	11	1	8	3	7	8	14	8	14	8	17	8	10	8	9
<i>Crypsis aculeata</i> (L.) Ait.	9	19	9	11	11	13	14	19	4	9	3	7	3	10	8	11	5	11	10	17	5	11	8	9
<i>Crypsis alopecuroides</i> (Pill. et Mitt.) Schrad.	7	15	9	11	10	14	12	16	4	9	1	5	3	7	7	12	5	14	9	17	6	11	8	9
<i>Crypsis schoenoides</i> (L.) Lam.	8	16	9	11	10	15	13	18	8	11	1	5	3	7	8	11	3	14	6	17	6	11	8	9
<i>Cucubalus baccifer</i> L.	10	18	2	6	7	11	8	10	5	9	5	10	7	11	6	13	9	14	5	17	6	11	3	6
<i>Cuscuta campestris</i> Yunck.	8	15	6	9	6	9	5	11	5	11	5	9			5	12	3	16	1	17	8	12	7	9
<i>Cuscuta epilinum</i> Weihe	7	15	6	9	5	10	4	8	4	8	3	7			5	12	3	13	2	13	6	13	7	9
<i>Cuscuta epithymum</i> (L.) L.	7	15	6	9	5	11	6	12	4	8	1	5			5	12	6	15	2	14	6	13	7	9
<i>Cuscuta europaea</i> L.	10	17	4	9	5	11	6	12	3	8	5	10			6	13	9	16	3	17	1	12	7	9

Cuscuta lupuliformis Krock.	10	17	3	8	5	10	6	11	3	6	5	10				6	9	6	12	5	17	3	10	5	9	
Cyclamen kuznetzovii Kotov et Czernowa	8	15	4	6	7	11	4	10	7	11	3	8	5	8	10	13	8	11	6	10	6	10	9	12	2	6
Cymbalaria muralis Gaerth., Mey. et Scherb.	8	15	3	6	7	11	5	12	9	12	1	7	3	6	7	13	9	15	1	10	1	10	9	13	7	9
Cynanchum acutum L.	7	13	9	11	7	14	7	15	6	11	3	11	3	8	9	14	3	11	10	17	10	17	6	13	7	9
Cynodon dactylon (L.) Pers.	3	15	9	11	7	13	7	16	3	8	1	7	3	6	8	16	3	10	1	17	1	17	5	15	7	9
Cynoglossum germanicum Jacq.	9	14	5	8	6	11	5	11	6	9	5	9	4	7	9	12	7	15	2	12	2	12	9	12	5	9
Cynoglossum officinale L.	5	13	3	7	7	10	5	11	5	10	6	10	4	8	4	11	5	18	5	10	5	10	3	12	6	9
Cynosurus cristatus L.	8	16	6	9	5	9	4	10	5	8	3	7	5	9	4	12	11	17	1	11	1	11	7	12	7	9
Cynosurus echinatus L.	3	12	4	7	7	12	6	12	5	11	2	8	5	7	9	14	7	15	2	12	2	12	10	13	7	9
Cyperus difformis L.	14	17	7	10	7	11	6	12	5	9	5	10	8	11											7	9
Cyperus fuscus L.	14	18	7	10	3	10	4	11	3	6	4	9	7	10											7	9
Cyperus glomeratus L.	14	18	7	10	3	9	4	10	3	6	2	9	7	10											7	9
Cyripedium calceolus L.	8	13	5	8	7	11	4	9	7	11	3	7	6	8	4	12	12	16	5	12	5	12	2	10	4	7
Cystopteris fragilis (L.) Bernh.	8	16	1	4	7	11	5	10	5	12	3	7	4	8	2	13	3	23	1	17	1	17	1	12	3	6
Cystopteris montana (Lam.) Desv.	8	16	1	3	3	11	2	7	5	12		7	3	7	4	9	14	18	3	11	3	11	7	11	3	5
Cystopteris regia (L.) desv.	8	16	1	3	7	11	2	7	9	12	2	7	4	8	4	8	14	18	3	9	3	9	8	12	3	7
Cystopteris sudetica A. Br. et Milde	8	15	1	3	3	12	2	7	5	12	3	7	3	6	4	9	13	18	5	14	5	14	4	10	3	5
Dactylis glomerata L.	8	16	4	7	7	11	4	10	7	10	4	9	6	9	4	13	8	16	5	15	5	15	5	12	5	9
Dactylis hispanica Roth	5	14	3	9	5	12	4	11	5	11	3	7	5	8	9	14	6	12	6	13	6	13	8	12	5	9
Dactylis polygama Horvat.	8	15	4	7	3	9	4	10	7	10	3	9	6	9	6	12	10	14	6	10	6	10	7	11	5	8
Dactylorhiza cordigera (Fries)Soo	10	17	4	9	3	8	4	8	4	8	3	8	7	11	9	12	11	14	8	12	8	12	8	11	6	9
Dactylorhiza fuchsii (Druce)Soo	10	17	5	10	4	11	4	9	4	7	3	9	6	11	4	10	11	18	1	16	1	16	4	12	4	9
Dactylorhiza iberica (Bieb. ex Wild.)Soo	10	16	6	9	5	11	6	11	8	10	5	9	6	11	11	14	5	11	7	17	7	17	9	12	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Dactylorhiza incarnata</i> (L.) Soo	11	18	5	9	4	10	4	10	4	10	4	9	6	12	6	10	12	14	4	9	7	10	6	9
<i>Dactylorhiza maculata</i> (L.) Soo	10	17	3	7	3	9	3	8	4	10	3	7	6	12	3	9	3	18	1	16	4	12	6	9
<i>Dactylorhiza majalis</i> (Reichenb.) P.F. Hunt et Summerhayes	11	19	3	7	2	9	3	8	4	9	2	6	6	12	4	10	11	18	5	11	6	12	4	9
<i>Dactylorhiza romana</i> (Seb. et Mauri) Soo	6	14	4	7	7	12	5	11	7	11	3	8	5	9	11	14	5	13	8	17	10	13	4	8
<i>Dactylorhiza sambucina</i> (L.) Soo	8	15	4	9	3	7	3	7	2	7	3	6	5	10	6	12	11	14	4	11	9	12	6	9
<i>Damasonium alisma</i> Mill.	13	19	8	11	7	12	8	13	4	7	5	9	7	10	7	14	7	16	3	16	6	12	8	9
<i>Danthonia alpina</i> Vest	8	16	4	7	7	11	4	10	5	6	4	9	4	7	8	11	12	14	6	9	8	10	6	9
<i>Daphne cneorum</i> L.	6	12	5	8	7	9	3	8	5	11	3	6	4	7	7	12	8	14	6	10	8	11	5	9
<i>Daphne laureola</i> L.	7	11	5	7	8	11	6	7	8	10	5	6	5	8	9	14	8	14	3	11	9	12	2	5
<i>Daphne mezereum</i> L.	11	14	6	8	5	9	5	7	3	6	5	7	7	9	7	9	3	15	4	13	5	11	2	5
<i>Daphne sophia</i> Kalen.	6	11	3	4	8	9	6	12	8	11	4	6	4	7	8	10	7	8	8	10	8	8	6	7
<i>Daphne taurica</i> Kotov	6	10	3	7	7	10	7	9	9	12	5	6	4	6	8	9	11	12	7	9	7	8	6	8
<i>Datura stramonium</i> L.	7	15	3	9	5	11	5	9	5	8	6	10	5	9	6	13	5	15	2	14	6	15	7	9
<i>Daucus carota</i> L.	5	15	3	10	5	10	5	13	5	11	3	7	4	9	6	12	3	17	1	17	6	15	6	9
<i>Delphinium cuneatum</i> Stev. ex DC.	7	11	5	9	8	11	7	13	7	11	4	7	4	7	7	10	10	13	9	12	6	9	5	8
<i>Delphinium elatum</i> L.	9	15	3	8	7	11	3	9	6	11	3	8	5	8	4	8	7	15	7	12	7	9	5	9
<i>Delphinium pallasii</i> Nevski	7	11	5	9	8	12	8	12	9	12	4	7	4	6	7	11	9	11	8	11	9	10	5	8
<i>Delphinium puniceum</i> Pall.	7	11	4	7	7	12	8	15	8	13	1	5	5	8	9	10	8	11	11	17	7	9	8	8
<i>Delphinium sergii</i> Wissjul.	7	11	5	9	8	12	8	12	8	12	4	7	4	7	9	10	9	11	11	15	6	9	5	9
<i>Dentaria bulbifera</i> L.	9	16	4	6	8	11	5	9	8	11	5	11	5	8	7	12	12	14	6	11	7	11	3	5
<i>Dentaria glandulosa</i> Waldst. et Kit.	9	17	4	6	8	11	5	9	8	11	5	10	5	8	8	11	11	13	9	12	18	10	3	5
<i>Dentaria quinquefolia</i> Bieb.	8	16	4	6	8	11	5	9	8	10	5	10	5	8	7	11	10	13	10	12	7	10	3	5



Deschampsia caespitosa (L.) Beauv.	10	17	4	9	5	9	3	11	3	7	2	7	8	11	2	13	5	20	1	17	1	12	6	9
Descurainia sophia (L.) Webb ex Prantl	4	10	6	11	5	10	3	10	5	10	3	8	4	7	4	12	5	20	1	15	3	13		
Dianthus andrzejewskianus (Zapat.) Kulcz.	4	10	4	9	7	12	5	12	4	10	2	8	5	7	7	11	10	13	10	14	6	10	7	9
Dianthus armeria L.	7	13	4	9	6	9	5	9	6	10	2	6	5	8	7	11	12	15	5	11	8	11	5	9
Dianthus barbatus L.	8	15	3	7	5	9	2	7	4	9	2	6	5	9	7	12	11	14	7	10	6	11	7	9
Dianthus bessarabicus Klokov	7	15	7	11	4	8	5	11	3	7	1	4	3	5	10	11	10	11	9	10	9	10	8	9
Dianthus borbasii Vandas	3	12	4	11	5	7	2	7	6	10	3	7	3	7	7	10	10	13	9	14	6	9	6	9
Dianthus campestris Bieb.	4	14	3	10	5	10	2	11	3	9	3	7	4	8	7	10	10	13	9	13	7	10	7	9
Dianthus capitatus Balb. ex DC.	6	10	4	9	7	12	5	13	8	11	3	7	5	7	10	12	9	12	10	14	9	10	6	9
Dianthus capite latus Klokov	3	12	4	11	5	7	2	7	6	10	2	5	3	6	7	10	10	13	6	9	9	14	8	9
Dianthus carbonatus Klokov	5	11	5	9	7	11	9	10	7	12	3	5	5	7	9	11	10	11	9	11	9	10	7	9
Dianthus carpaicus Woloszez.	7	12	7	9							1	6	4	6	3	5	15	18	5	7	6	8	7	9
Dianthus carthusianorum L.	6	14	3	8	5	11	5	9	3	9	1	5	5	7	8	12	11	14	5	12	9	11	6	9
Dianthus collinus Waldst. et Kit.	7	11	5	8	4	8	4	8	5	7	2	6	4	8	8	10	11	13	8	10	9	10	7	9
Dianthus compactus Kit.	10	14	3	6	5	7	3	10	8	9	4	7	6	8	10	12	12	13	8	10	9	10	7	9
Dianthus deltoides L.	8	14	4	9	3	7	3	9	4	9	1	5	5	7	5	12	11	15	3	13	5	12	5	9
Dianthus elongatus C.A. Mey	5	11	4	9	7	11	6	11	9	12	3	7	5	7	8	11	9	12	8	13	8	10	7	9
Dianthus eugeniae Kleop.	8	15	3	7	6	9	3	9	6	10	2	7	5	9	8	9	10	13	9	12	7	9	7	9
Dianthus fischeri Spreng.	5	11	5	9	5	11	4	11	5	7	3	7	5	7	6	9	7	11	9	11	7	9	6	9
Dianthus glabriusculus (Kit.) Bieb.	7	11	5	8	7	10			5	9	2	6	4	8	9	11	11	13	8	10	9	10	7	9
Dianthus grationopolitanus Vill.	5	11	4	9	9	10	5	9	10	13	2	6	5	7	8	9	9	10	6	9	9	10	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Dianthus guttatus</i> M. Bieb.	8	15	8	11	8	13	11	15	9	11	3	7	8	11	9	11	11	12	10	13	7	10	8	9
<i>Dianthus humilis</i> Willd. ex Ledeb.	3	10	6	9	7	10	5	9	5	10	2	5	4	7	10	11	10	11	7	10	9	11	8	9
<i>Dianthus hypanicus</i> Andrz.	4	13	4	9	3	8	2	8	3	7	3	6	4	7	8	10	10	12	9	11	8	9	7	9
<i>Dianthus laevigatus</i> (Grun.) Klokov	5	11	7	11	4	9	3	7	2	6	1	4	4	6	7	10	10	13	9	13	7	10	7	9
<i>Dianthus lanceolatus</i> Stev. ex Reichenb.	5	11	4	9	7	12	6	14	9	12	3	7	5	7	8	11	9	12	8	13	8	10	7	9
<i>Dianthus maoticus</i> Klokov	3	9	6	9	3	6	2	5	1	5	2	5	4	6	9	11	10	12	10	12	8	10	7	9
<i>Dianthus marschallii</i> Schischk.	3	12	4	9	7	12	5	12	8	11	2	7	5	7	8	12	10	13	8	11	9	10	7	9
<i>Dianthus membranaceus</i> Borb.	5	13	4	9	8	10	6	9	8	11	3	6	5	8	8	11	10	13	9	11	8	11	7	9
<i>Dianthus pineticola</i> Kleopow	5	11	5	9	5	11	4	11	5	7	3	7	5	7	7	9	11	13	9	12	6	9	6	9
<i>Dianthus platyodon</i> Klokov	5	12	4	9	5	11	3	11	2	8	1	6	5	7	9	11	10	12	10	12	7	10	7	9
<i>Dianthus polonicus</i> Zapal.	6	12	5	10	5	8	4	8	5	8	2	5	4	7	7	9	12	13	6	8	8	10	6	9
<i>Dianthus pseudoarmeria</i> Bieb.	5	11	5	9	7	12	6	14	8	9	1	7	5	6	9	11	8	11	8	12	9	10	8	9
<i>Dianthus pseudobarbatus</i> Bess. et Ledeb.	6	11	5	9	7	10	9	13	6	9	3	7	5	7	8	10	10	12	9	11	7	10	7	9
<i>Dianthus pseudoserotinus</i> Blocki	7	12	4	7	4	9	3	10	4	9	3	6	4	6	8	9	12	13	7	9	9	9	7	8
<i>Dianthus pseudosquarrosus</i> (Novak) Klokov	7	12	4	7	2	5	1	6	2	5	1	5	3	6	8	9	10	13	9	11	7	9	6	9
<i>Dianthus pseudoversicolor</i> Klokov	5	11	7	9	4	11	4	9	4	9	1	7	4	7	7	10	10	13	9	13	7	10	7	9
<i>Dianthus rigidus</i> Bieb.	3	8	6	9	6	12	5	10	8	12	2	6	4	6	7	10	10	13	10	14	5	10	8	9
<i>Dianthus serotinus</i> Waldst. et Kit.	7	11	5	8			7	8			2	4	4	6	10	11	11	13	8	11	9	9	7	9
<i>Dianthus speciosus</i> Reichenb.	9	16	3	7	2	8	4	8	5	9	3	7	5	9	3	9	11	19	4	9	5	9	7	9
<i>Dianthus spiculifolius</i> Schur	7	12	4	9	8	12	8	11	9	11	1	6	5	7	6	9	12	15	6	9	8	10	7	9

Dianthus squarrosus Bieb.	6	13	3	7	5	8	3	9	2	7	2	6	5	9	8	10	9	12	10	14	6	9	7	9
Dianthus stenocalyx Juz.	8	16	3	7	7	10	4	9	4	8	5	8	5	9	7	9	10	13	8	13	7	9	7	9
Dichodon cerastioides (L.) Reichenb.	11	17	2	5	3	8	5	6	4	10	2	5	3	7	2	5	14	17	1	17	2	10	8	9
Dichodon dubium (Bast.) Ikonn.	9	17	5	8	7	13	9	15	7	9	4	6	5	10	7	14	5	14	6	12	8	12	7	9
Dictamnus albus L.	6	13	3	7	7	11	4	9	9	12	3	7	4	7	7	13	11	14	6	11	9	11	6	8
Dictamnus gymnostylis Stev.	6	13	3	7	7	11	4	11	9	12	3	7	4	7	10	11	10	12	6	12	8	11	6	8
Digitalis grandiflora Mill.	8	15	3	7	5	9	3	9	5	9	3	9	4	8	6	13	10	14	6	12	6	11	6	9
Digitalis purpurea L.	8	15	4	6	3	7	4	9	5	9	4	9	5	8	7	11	11	17	1	10	8	13	6	9
Digitaria ischaemum (Schreb.) Muehl.	8	14	9	11	1	6	3	9	4	6	1	7	3	6	6	13	3	15	3	11			7	9
Digitaria sanguinalis (L.) Scop.	6	13	9	11	5	8	5	12	4	6	3	7	3	6	6	13	3	15	3	9			7	9
Diphasiastrum alpinum (L.) Holub	8	15	1	7	1	6	2	5	1	5	1	5	3	7	3	9	13	19	1	12	2	11	6	9
Diphasiastrum complanatum (L.) Holub	9	15	1	5	1	4	1	7	1	5	1	5	4	7	4	14	11	18	3	17	3	15	5	8
Diphasiastrum issleri (Rouy) Holub	8	15	4	7	1	5	1	5	1	5	1	5	1	5	7	8	13	18	4	9	9	11	5	8
Diphasiastrum tristachyum (Pursh) Holub	8	16	1	5	1	6	1	5	2	6	1	5	4	7	4	16	14	18	5	9	3	15	4	7
Diplotaxis cretacea Kotov	5	8	2	5	11	13	10	12	11	13	1	3	3	5	8	10	10	12	11	12	7	8	9	9
Diplotaxis muralis (L.) DC.	6	10	3	7	8	11	6	11	9	12	4	8	4	8	7	14	10	14	4	14	9	12	7	9
Diplotaxis tanaitica Schtscherb.	5	8	2	5	10	12	10	12	11	13	1	3	3	5	8	10	10	12	10	12	7	8	7	9
Diplotaxis tenuifolia (L.) DC.	6	10	3	7	8	11	5	11	8	11	4	7	4	8	8	13	10	15	3	12	9	12	7	9
Diplotaxis viminea (L.) DC.	3	8	1	5	10	12	7	12	10	13	1	6	3	7	11	14	1	14	4	17	9	13	7	9
Dipsacus laciniatus L.	8	16	2	7	7	11	7	12	6	9	3	9	5	10	10	14	5	11	7	14	8	10	5	9
Dipsacus pilosus L.	10	17	2	6	6	11	7	12	6	9	4	9	6	11	7	13	3	13	4	11	8	13	5	9
Dipsacus sylvestris Huds.	8	15	6	9	7	11	6	11	5	8	3	9	5	9	8	13	3	15	3	11	8	13	7	9
Doronicum austriacum Jacq.	10	17	3	7	5	9	4	8	4	7	5	9	5	9	6	12	14	18	5	10	7	10	3	7
Doronicum carpaticum (Griseb. et Schenk) Nym.	9	17	3	9	5	8	4	8	4	8	5	9	4	11	5	7	14	18	6	7	6	9	7	9
Dorycnium herbaceum Vill.	3	12	3	6	9	12	5	11	10	13	2	6	4	7	10	13	11	14	6	12	10	12	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Dorycnium pentaphyllum</i> Scop.			3	6	7	12	5	11	7	11	2	6	4	7	9	12	12	14	8	12	9	11	6	9
<i>Draba aizoides</i> L.	6	10	3	6	9	11	5	9	10	13	1	4	3	4	4	7	14	18	3	8	7	11	7	9
<i>Draba carinihiaca</i> Hoppe	6	9	3	6	8	11	4	9	9	13	1	4	3	6	3	5	15	18	3	8	7	10	7	9
<i>Draba cuspidata</i> Bieb.	3	7	2	6	11	12	10	12	11	13	1	4	4	6	8	9	12	13	7	8	9	10	7	9
<i>Draba muralis</i> L.	5	11	6	10	8	11	5	10	9	11	1	6	4	8	6	14	8	14	3	15	9	12	7	9
<i>Draba nemorosa</i> L.	6	13	6	11	4	11	1	9	1	11	2	5	4	8	4	11	9	14	7	16	3	10	7	9
<i>Draba sibirica</i> (Pall.) Thell.	6	11	6	10	3	6	1	6			1	4	3	6	3	9	8	15	6	17	1	8	7	9
<i>Dracocephalum austriacum</i> L.	5	11	3	6	8	12	7	12	8	13	2	6	3	7	8	11	8	12	6	11	8	10	7	9
<i>Dracocephalum ruyshiana</i> L.	7	14	4	7	5	11	5	9	6	10	2	7	5	8	4	12	11	14	6	17	4	10	5	8
<i>Dracocephalum thymiflorum</i> L.	4	13	4	8	7	11	3	9	5	10	2	8	4	8	5	12	6	12	9	15	5	10	7	9
<i>Drosera anglica</i> Huds.	14	20	1	5	3	7	1	5	1	4	1	5	10	13	4	10	11	1	1	17	1	11	7	9
<i>Drosera intermedia</i> Hayne	14	19	1	9	1	6	1	5	1	4	1	5	8	12	6	12	13	16	1	9	8	14	7	9
<i>Drosera rotundifolia</i> L.	14	20	1	3	1	5	1	3	1	3	1	4	10	13	3	10	11	18	1	17	1	13	7	9
<i>Dryas octopetala</i> L.	8	14	1	3	7	11	1	5	1	3	3	7	3	7	2	7	15	18	1	17	1	11	7	9
<i>Dryopteris affinis</i> (Love) Fraser-Jenkis	9	15	9	11	7	10	4	9	3	6			13	15	8	9	12	20	7	8	9	12	1	4
<i>Dryopteris carthusiana</i> (Vill.) H. P. Fuchs	8	19	1	5	3	7	2	10	4	9	1	7	6	10	4	11	3	12	1	14	5	12	3	6
<i>Dryopteris cristata</i> (L.) A. Gray	13	19	2	5	5	8	2	10	2	4	1	9	6	10	6	10	10	18	5	13	5	11	4	7
<i>Dryopteris dilatata</i> (Hoffm.) A. Gray	9	17	1	5	3	8	2	10	2	6	4	8	6	9	4	13	12	21	2	12	5	12	1	5
<i>Dryopteris expansa</i> (C. Presl) Fraser-Jenkis et Jermy	9	16	1	5	3	8	2	10	2	6	4	9	6	9	5	10	14	18	6	12	7	11		
<i>Dryopteris filix-mas</i> (L.) Schott	8	15	2	5	5	9	3	9	4	9	4	9	6	9	5	12	11	21	1	15	4	12	1	5

Duscheckia viridis (Chaix) Opiz	9	17	1	4	2	9	2	8	2	2	6	5	9	5	11	3	6	16	19	3	7	4	7	7	9
Echinochloa crusgalli (L.) Beauv.	9	17	7	10	5	9	7	9	4	4	8	7	10	7	10	6	17	3	20	1	15	4	15	6	9
Echinocystis lobata (Michx) Torr. et Gray	10	17	7	10	5	9	5	10	5	10	5	9	9	6	9	8	12	9	18	6	16	5	12	4	9
Echinophora sibthorpiana Guss.	8	12	8	11	10	13	13	17	2	6	1	4	3	6	11	14	6	12	6	16	16	10	12	6	9
Echinops armatus Stev.	7	14	3	7	7	11	7	12	9	13	3	8	4	7	10	11	10	12	8	11	9	11	6	9	9
Echinops ritro L.	3	13	3	8	7	11	5	11	9	13	4	10	4	7	6	13	9	14	9	16	16	4	10	7	9
Echinops sphaerocephalus L.	5	13	3	7	7	11	7	9	9	12	5	10	4	7	6	13	5	13	6	17	3	14	6	8	8
Echium biebersteinii Lacaita	5	13	6	9	7	12	7	11	9	11	2	7	4	7	10	14	6	11	6	17	8	12	7	9	9
Echium maculatum L.	3	13	6	9	7	12	7	9	9	11	3	8	5	8	7	12	10	12	8	12	7	10	7	9	9
Echium vulgare L.	5	13	6	11	5	11	5	10	3	13	2	7	4	7	5	12	10	15	2	14	6	12	6	9	9
Elaeagnus angustifolia L.	2	17	2	11	7	12	8	14	5	11	3	7	3	11	7	13	7	14	5	17	6	12	6	9	9
Elatine alsinastrum L.	14	19	9	11	5	9	5	9	3	7	3	9	3	11	4	12	9	15	3	14	4	12	5	9	9
Elatine ambigua Wight	14	21	9	11	7	9	3	7	3	6	3	9	7	13	4	11	11	15	3	9	6	12	5	9	9
Elatine gyrosperma Dueben	14	19	9	11	3	7	3	8	1	6	1	7	10	14	4	14	11	16	2	14	5	12	5	9	9
Elatine hungarica Moesz	15	21	9	11	10	12	11	16	6	9	4	6	8	13	9	11	10	12	9	14	8	9	5	9	9
Eleocharis acicularis (L.) Roem.	16	19	9	11	7	12	5	11	4	7	5	9	8	11	2	14	1	18	1	17	1	13	7	9	9
Eleocharis multicaulis (Smith) Desv.	13	19	9	11	2	6	2	5	1	4	2	9	3	9	6	14	14	16	1	9	10	13	7	9	9
Eleocharis ovata (Roth) Roem. et Schult.	11	19	9	11	2	7	2	6	2	5	3	8	4	10	5	14	11	18	1	16	4	12	7	9	9
Eleocharis palustris (L.) Roem. et Schult.	16	19	9	11	5	12	3	15	8	6	2	7	7	11	3	11	3	13	1	17	1	9	7	9	9
Eleocharis parvula (Roem. et Schult.) Bluff. Nees et Schauer	13	17	8	10	11	13	13	16	4	7	2	5	6	8	5	11	10	16	1	9	8	11	7	9	9
Eleocharis quinqueflora (F. Hartmann) O. Schwarz	15	19	7	10	5	11	5	12	4	7	3	9	7	10	3	12	13	18	2	11	7	12	6	9	9
Eleocharis uniglumis (Link) Schult.	12	19	3	9	5	13	12	16	4	7	3	9	6	9	3	13	3	18	4	12	1	13	7	9	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Elisanthe noctiflora</i> (L.) Rupr.	6	13	4	9	7	11	6	7	4	5	4	9	5	7	7	12	6	15	5	11	5	11	6	8
<i>Elisanthe viscosa</i> (L.) Rupr.	5	12	4	9	7	11	6	11	4	10	3	6	5	7	6	10	9	14	6	17	6	10	6	9
<i>Elisanthe zawadskii</i> (Herbich) Klokov	7	15	3	6	5	11	3	7	10	11	1	5	4	9	5	7	14	17	7	8	8	9	7	9
<i>Elodea canadensis</i> Michx.	19	23	1	3	7	11	7	10	3	7	5	10	13	15	6	15	1	15	1	15	1	15	5	7
<i>Elytrigia bessarabica</i> (Savul. et Rayss) Prokud.	8	17	9	11	11	13	10	17	7	11	1	5	3	9	6	14	6	17	1	10	9	13	7	9
<i>Elytrigia elongata</i> (Host) Nevski	5	13	8	11	5	14	10	15	7	11	2	10	6	11	9	11	10	12	6	12	8	11	7	9
<i>Elytrigia intermedia</i> (Host) Nevski	4	12	3	9	7	12	7	14	8	12	3	9	4	7	7	13	4	15	6	17	7	10	7	9
<i>Elytrigia maeotica</i> (Prokud.) Prokud.	6	15	8	11	7	12	9	16	5	9	3	9	6	9	10	11	10	11	10	12	8	9	7	9
<i>Elytrigia nodosa</i> (Nevski) Nevski	3	13	2	6	7	12	5	12	8	12	1	6	4	7	11	12	9	10	8	9	9	10	6	9
<i>Elytrigia pseudocaeasia</i> (Pacz.) Prokud.	6	16	8	11	9	12	11	16	5	11	2	7	6	9	9	11	10	11	10	11	9	9	7	9
<i>Elytrigia repens</i> (L.) Nevski	4	16	4	9	5	12	5	15	9	11	5	10	3	9	2	14	3	15	2	17	1	12	6	9
<i>Elytrigia stipifolia</i> (Czern. ex Nevski) Nevski	5	12	3	7	8	13	7	14	9	12	2	7	4	7	9	11	10	12	10	11	8	9	7	9
<i>Elytrigia strigosa</i> (Bieb.) Nevski	5	12	3	7	8	12	5	11	9	11	1	8	3	6	8	10	10	12	7	7	9	9	7	9
<i>Elytrigia trichophora</i> (Link) Nevski	3	11	3	9	7	12	6	12	8	11	3	7	4	7	7	12	6	12	10	16	8	10	7	9
<i>Empetrum hermaphroditum</i> Hagerup	7	15	3	7	3	7	1	5	5	11	1	6	5	9	1	7	3	8	1	17	1	11	7	9
<i>Empetrum nigrum</i> L.	8	17	2	7	3	7	1	6	8	10	1	5	5	11	1	8	3	9	1	17	1	11	6	9
<i>Ephedra distachya</i> L.	1	10	3	7	7	12	6	15	5	12	1	7	3	7	7	13	6	11	6	17	5	12	8	9
<i>Epilobium alpestre</i> (Jacq.) Krock.	9	17	2	6	3	8	3	7	3	7	4	7	7	11	4	7	14	18	4	7	7	10	7	9
<i>Epilobium collinum</i> C.C. Gmel.	7	15	5	8	3	9	4	8	6	12	2	5	5	8	5	12	10	18	1	9	7	11	6	9

Epilobium hirsutum L.	10	18	6	10	7	11	5	11	3	7	6	10	3	7	6	13	3	18	1	14	6	15	7	9
Epilobium montanum L.	8	15	5	8	5	9	4	8	4	8	4	9	5	8	3	12	7	18	1	12	5	12	3	6
Epilobium obscurum Schreb.	12	17	4	9	3	9	3	9	3	8	3	9	6	11	7	13	10	17	5	9	8	12	6	9
Epilobium palustre L.	13	19	3	6	3	7	3	8	3	7	4	9	9	12	2	12	3	18	1	17	1	12	6	9
Epilobium parviflorum Schreb.	10	18	6	10	7	11	3	9	4	8	3	9	7	12	6	13	3	18	5	11	6	13	6	9
Epilobium roseum Schreb.	10	18	4	8	7	11	3	9	4	8	6	10	7	11	6	12	10	16	5	11	5	12	4	8
Epilobium tetragonum L.	10	19	4	9	3	9	3	9	4	8	3	9	7	12	6	13	3	18	5	11	6	15	5	9
Epipactis atrorubens (Hoffm. ex Bernh.) Schult.	6	14	3	6	7	11	4	9	6	10	3	8	5	9	4	12	3	15	2	12	5	13	3	8
Epipactis helleborine (L.) Crantz	8	15	3	6	5	11	5	9	6	10	3	9	5	9	4	13	3	18	4	11	5	13	3	8
Epipactis microphylla (Ehrh.) Sw.	7	15	3	6	8	11	5	10	4	6	3	8	5	9	8	13	6	14	6	10	9	12	2	6
Epipactis palustris (L.) Crantz	11	19	3	8	7	12	5	10	6	10	3	9	7	11	4	12	2	15	3	15	4	12	6	9
Epipactis purpurata Smith	8	15	3	6	7	11	5	9	6	10	4	9	5	9	7	11	11	15	4	12	8	11	3	6
Epipogonum aphyllum (F.W.Schmidt) Sw.	8	15	2	5	3	9	3	7	5	9	5	9	5	9	5	12	13	16	5	12	3	11	1	4
Equisetum arvense L.	6	16	9	11	3	9	3	13	4	9	2	7	6	11	1	13	1	15	1	17	1	13	6	9
Equisetum fluviatile L.	16	19	9	11	5	12	2	13	4	7	3	9	13	15	3	12	11	20	1	15	3	12	6	9
Equisetum hyemale L.	10	17	6	10	5	11	3	10	6	9	5	9	6	11	4	14	3	22	1	15	1	12	6	9
Equisetum palustre L.	10	19	1	6	5	9	3	11	4	7	1	7	10	14	3	12	9	15	4	15	1	12	6	9
Equisetum pratense L.	9	17	5	11	7	10	2	9	4	6	4	8	8	12	1	13	12	23	1	17	1	11	5	9
Equisetum ramosissimum Desf.	5	17	2	6	5	10	6	11	2	7	2	6	2	6	8	15	1	14	3	17	6	15	7	9
Equisetum sylvaticum L.	10	17	1	4	3	7	3	8	4	7	3	7	3	7	2	12	9	23	1	17	1	11	2	5
Equisetum telmateia Ehrh.	10	18	2	5	7	11	8	14	8	10	3	8	8	13	7	14	3	14	2	12	8	13	4	7
Equisetum variegatum Schlecht. ex Web. et Mohr	10	17	9	11	7	12	7	13	4	8	1	5	5	10	2	10	12	13	2	17	1	9	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
Eragrostis minor Host	3	12	7	11	5	10	3	12	3	7	3	7	4	8	7	16	3	14	6	17	4	13	7	9
Eragrostis pilosa (L.) Beauv.	9	16	9	11	3	7	7	11	4	8	3	9	4	9	6	14	3	14	5	17	4	13	7	9
Eragrostis suaveolens A. Becker ex Claus	5	16	9	11	3	8	2	6	2	7	1	6	4	8	9	11	8	13	10	17	7	10	7	9
Eremogone biebersteinii (Schlecht.) Holub	4	11	4	9	7	12	6	11	8	12	2	8	4	7	7	10	10	13	9	13	6	9	8	9
Eremogone cephalates (Bieb.) Fenzl.	4	11	4	9	7	11	6	11	8	12	2	8	4	7	9	11	10	11	9	11	9	1	8	9
Eremogone longifolia (Bieb.) Fenzl	4	13	6	10	7	10	5	15	7	11	3	7	4	7	6	11	8	14	9	17	5	10	7	9
Eremogone micradenia (P. Smirn.) Ikonn.	8	12	4	9	7	11	5	11	8	13	2	6	5	7	4	9	10	14	8	12	5	10	7	9
Eremogone pineticola (Klokov) Klokov	5	13	5	9	2	4	2	6	2	6	3	6	3	6	7	10	10	13	9	13	6	9	5	9
Eremogone rigida (Bieb.) Fenzl	5	11	4	9	7	12	6	11	7	12	2	8	4	7	9	11	10	11	9	11	9	11	7	9
Eremogone saxatilis (L.) Ikonn.	5	13	5	9	2	4	2	6	2	6	3	6	3	6	4	9	10	14	8	12	5	10	6	9
Eremopyrum orientale (L.) Jaub. et Spach	1	9	5	9	9	12	7	16	5	9	1	5	3	7	7	14	3	11	5	17	6	12	8	9
Eremopyrum triticeum (Gaertn.) Nevski	1	9	5	9	9	12	8	16	4	9	1	6	3	9	7	12	3	12	6	17	6	11	8	9
Erigeron acris L.	5	14	4	9	5	11	3	11	8	10	1	7	5	8	4	12	8	16	1	17	1	11	8	9
Erigeron alpinus L.	7	14	5	7	7	10	3	6	7	10	2	5	4	6	4	8	14	18	6	8	5	8	7	9
Erigeron canadensis L.	5	13	7	11	5	12	2	14	3	9	3	7	4	7	4	13	3	15	3	11			7	9
Erigeron uniflorus L.	8	14	5	7	5	8	3	6	7	10	1	5	4	6	4	5	15	18	6	7	5	6	8	9
Eriophorum gracile Koch	14	19	1	4	3	7	1	4	2	4	1	5	10	13	3	10	12	15	7	11	5	11	7	9
Eriophorum latifolium Hoppe	14	19	1	7	7	11	3	9	4	9	1	5	9	13	4	12	12	16	1	17	1	12	7	9
Eriophorum polystachyon L.	13	19	1	4	4	7	1	4	2	4	1	5	10	14	1	11	12	18	1	17	1	12	8	9
Eriophorum scheuchzeri Hoppe	14	19	1	4	3	7	1	4	2	4	1	5	10	14	1	5	12	18	1	17	1	10	8	9



Eriophorum vaginatum L.	11	18	1	4	1	6	1	4	2	4	4	1	4	10	14	1	10	10	20	1	17	1	11	7	9
Eriosynaphe longifolia (Fisch. ex Spreng.) DC.	3	10	5	9	6	12	10	15	3	4	4	2	8	3	7	9	10	6	10	10	16	6	9	8	9
Erodium beketovii	2	8	2	8	7	10	5	10	5	8	2	5	3	3	7	9	10	9	11	10	12	8	9	8	9
Erodium cicutarium (L.) L'Her.	3	12	4	11	5	9	5	11	1	4	3	7	3	3	7	3	13	3	15	1	17	2	14	7	9
Erodium ruthenicum Bieb.	5	14	4	9	6	11	7	13	7	10	3	9	4	9									7	9	9
Erophila praecox (Stev.) DC.	5	14	5	11	8	11	6	10	7	11	1	6	5	5	9	10	14	1	12	10	17	9	12	6	9
Erophila verna (L.) Bess.	4	14	5	11	5	11	1	10	1	9	1	6	5	5	9	2	14	1	20	1	17	6	13	6	9
Eruca sativa Mill.	5	13	7	11	7	11	5	15	3	9	1	5	3	3	7	6	14	1	14	6	17	7	13	8	9
Erucastrum gallicum (Wild.) O. E. Schulz	5	10	5	8	8	11	7	12	8	12	3	9	3	3	7	8	12	10	15	4	10	9	11	8	9
Eryngium campestre L.	5	12	4	9	7	12	5	14	8	11	3	7	5	7	7	7	13	10	15	2	13	7	13	8	9
Eryngium maritimum L.	8	15	7	11	5	15	9	16	5	8	1	7	5	5	9	7	13	10	20	1	10	9	13	8	9
Eryngium planum L.	5	15	3	9	5	10	5	12	7	11	3	8	5	5	9	7	12	7	13	6	17	6	12	7	9
Erysimum canescens Roth	5	10	3	9	7	11	7	11	8	11	3	6	4	4	7	7	12	6	13	10	17	5	11	6	9
Erysimum cheiranthoides L.	8	16	6	11	6	9	4	8	5	9	7	10	7	7	11	5	12	9	15	4	16	5	12	6	9
Erysimum cuspidatum (Bieb.) DC.	4	10	3	6	9	12	6	11	8	11	13	6	4	4	8	8	14	3	13	9	17	7	13	6	9
Erysimum diffusum Ehrh.	5	10	3	9	7	11	7	11	8	11	2	6	4	4	7	7	11	9	12	9	15	8	10	7	9
Erysimum hieracifolium L.	5	10	3	8	7	11	4	10	6	10	4	8	6	6	8	4	12	11	15	4	12	5	11	5	9
Erysimum krynkense Lavr.	3	6	2	4	10	12	10	12	11	13	1	3	4	4	6	9	10	10	11	11	12	7	8	8	9
Erysimum leptostylum DC.	4	8			7	12	7	13	8	11	1	4	3	3	6	9	10	10	11	11	12	8	9	8	9
Erysimum marshallianum Andrz. ex Bieb.	6	10	6	11	5	10	3	9	5	9	3	11	5	5	8	4	11	10	20	2	12	5	11	6	9
Erysimum odoratum Ehrh.	6	10	6	10	5	10	4	10	5	10	2	6	4	4	7	8	12	10	14	6	12	7	10	6	9
Erysimum repandum L.	6	12	6	11	3	11	5	13	5	11	5	9	4	4	8	8	14	6	14	7	17	7	12	8	9
Erysimum sylvaticum Bieb.	8	12	3	6	6	9	7	9	7	10	7	10	6	6	8	7	10	9	13	9	14	6	10	4	8
Erysimum ucrainicum J. Gay	4	8	2	5	10	13	9	13	11	13	1	3	3	3	6	8	10	10	11	10	12	7	8	8	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Erysimum versicolor</i> (Bieb.) Andr.	3	7	8	11	10	13	10	16	8	11	1	4	6	9	7	12	5	11	10	17	6	10	8	9
<i>Erysimum witmannii</i> Zawadzki	6	11	5	8	9	10	1	4	8	10	3	6	3	6	3	5	16	19	5	7	6	8	6	9
<i>Erythronium dens-canis</i> L.	9	15	6	9	5	9	3	8	5	8	3	9	6	9	8	12	7	11	6	10	8	12	4	7
<i>Euclidium syriacum</i> (L.) R. Br.	4	9	7	11	9	13	9	16	5	10	1	7	5	8	8	12	1	13	9	17	6	11	6	9
<i>Euonymus europaea</i> L.	8	15	4	6	7	11	5	9	3	9	3	9	5	8	7	12	10	16	2	12	7	12	2	7
<i>Euonymus latifolius</i> (L.) Mill.	9	15	4	6	7	11	5	10	4	9	7	10	5	8	9	12	5	14	6	11	9	11	2	5
<i>Euonymus nana</i> Bieb.	9	15	4	6	7	11	5	9	5	9	5	10	5	8	9	11	10	14	8	10	8	9	2	5
<i>Euonymus verrucosa</i> Scop.	8	14	4	7	7	11	3	9	3	9	4	9	4	8	7	12	11	14	6	12	6	10	2	7
<i>Eupatorium cannabinum</i> L.	10	18	9	11	7	12	5	9	5	9	6	10	7	12	6	13	3	15	3	11	3	13	6	9
<i>Euphorbia agraria</i> Bieb.	6	13	4	9	6	12	5	11	6	9	2	8	5	7	8	12	10	12	7	11	9	10	7	9
<i>Euphorbia amygdaloides</i> L.	9	15	3	7	7	10	5	9	3	9	3	9	5	9	8	13	11	15	3	10	9	13	1	5
<i>Euphorbia angulata</i> Jacq.	9	15	3	7	7	11	5	9	5	8	3	7	5	9	7	11	12	15	3	9	8	12	5	8
<i>Euphorbia carniolica</i> Jacq.	10	15	3	6	4	8	3	10	6	10	4	6	6	9	5	8	14	16	7	10	9	11	5	8
<i>Euphorbia cretophila</i> Klokov	4	13	3	6	9	12	8	12	11	13	2	8	4	7	9	10	10	12	10	11	9	10	8	9
<i>Euphorbia cyparissias</i> L.	5	13	4	9	5	11	3	11	6	12	1	7	5	7	7	11	11	15	3	11	7	12	6	9
<i>Euphorbia esula</i> L.	5	13	4	9	7	12	6	10	5	9	3	9	5	7	6	12	11	15	3	10	8	12	7	9
<i>Euphorbia exiqualis</i> L.	8	13	3	7	8	11	6	10	5	9	3	9	5	8	8	15	6	15	2	11	9	13	7	9
<i>Euphorbia falcata</i> L.	7	14	3	7	7	10	6	11	6	9	5	9	5	8	7	12	6	13	3	17	9	13	7	9
<i>Euphorbia glareosa</i> Pall.ex Bieb.	8	11	6	7	7	12	7	12	8	13	2	7	4	6	10	12	10	12	6	11	8	11	7	9
<i>Euphorbia graeca</i> Bois. et Sprun.	5	11	4	9	7	12	6	12	9	12	1	8	4	7	11	14	9	12	7	11	9	12	7	9
<i>Euphorbia helioscopia</i> L.	5	14	3	10	6	10	6	10	5	11	5	10	4	8	6	13	6	16	1	15	6	13	6	9
<i>Euphorbia humifusa</i> Schlecht.	5	14	3	9	6	11	7	11	5	9	3	9	4	8	6	10	3	12	6	17	2	14	7	9

Euphorbia kaleniczenkoi Czern.	5	13	4	9	7	12	7	11	7	11	3	9	4	8	8	11	8	12	10	12	7	9	6	9
Euphorbia leptocaula Boiss.	5	11	5	9	7	12	6	12	9	12	2	8	5	7	8	11	8	12	8	14	6	10	7	9
Euphorbia lingulata Heuff.	6	13	7	10	7	9	4	7	10	12	1	4	4	6	8	12	11	13	9	11	9	11	6	8
Euphorbia lucida Waldst. et Kit.	11	17	7	11	5	9	4	9	4	8	5	9	7	11	7	11	10	14	7	9	8	11	5	9
Euphorbia myrsinites L.	5	12	3	9	7	12	9	14	8	10	2	8	4	7	11	14	6	11	6	11	9	12	8	9
Euphorbia palustris L.	11	19	1	9	5	9	5	10	5	8	5	9	7	11	6	12	10	17	4	15	6	11	6	9
Euphorbia pepilis L.	6	15	8	11	7	14	13	16	5	8	3	7	3	7	6	13	2	10	5	11	10	14	6	9
Euphorbia peplus L.	7	15	4	8	6	11	6	11	5	8	3	7	5	7	6	13	5	14	1	16	7	14	6	9
Euphorbia petrophila C.A.Mey.	5	13	4	9	9	12	7	12	10	13	2	8	4	7	8	11	10	13	6	11	9	11	8	9
Euphorbia plathyphyllos L.	9	15	3	7	7	10	5	11	6	11	3	8	5	8	7	14	6	15	4	12	9	13	5	8
Euphorbia pseudoglaresosa Klokov	5	13	4	9	7	11	7	11	9	12	3	7	5	7	9	11	10	12	10	10	9	9	7	9
Euphorbia rigida Bieb.	5	13	4	9	8	12	9	15	11	12	3	8	3	7	11	14	5	10	6	17	10	13	8	9
Euphorbia salicifolia Host	8	15	3	9	7	11	7	11	6	10	3	8	5	9	8	11	10	12	9	11	8	10	8	9
Euphorbia semivillosa Prokh.	7	13	4	8	7	9	5	10	8	11	3	8	4	8	6	11	10	13	8	13	6	9	5	9
Euphorbia sequierana Neck.	2	11	5	11	7	13	6	14	8	12	1	4	3	7	7	11	6	12	5	17	6	11	6	9
Euphorbia stepposa Zoz	5	13	4	9	7	10	7	14	7	11	2	8	5	7	7	11	10	12	9	11	7	10	7	9
Euphorbia stricta L.	8	16	3	7	5	11	6	11	4	9	7	9	5	9	8	14	5	15	3	17	7	12	4	7
Euphorbia subtilis Prokh.	5	12	4	9	7	12	6	12	7	12	3	9	5	7	8	11	10	12	9	12	7	9	6	9
Euphorbia tauricola Prokh.	7	13	4	8	7	10	7	11	8	11	3	8	4	8	9	11	10	12	7	9	9	10	6	9
Euphorbia tyraica Klokov et Artemez.	5	5	7	11	10	13	13	17	5	8	1	5	5	11	8	14	10	15	2	10	10	13	8	9
Euphorbia valdevillosocarpa Arvat et E. J. Nyarady	7	13	4	8	7	11	8	12	9	11	5	8	4	8	9	10	10	11	8	10	9	9	6	9
Euphorbia villosa Waldst. et Kit.	4	16	4	8	7	11	6	13	8	11	5	9	4	8	4	12	12	14	3	9	9	12	6	9
Euphorbia virgultosa Klokov	8	16	2	10	7	10	4	12	4	9	3	8	4	9	7	11	10	14	6	12	8	9	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Euphorbia vollhynica</i> Bess. ex Szaf., Kulez et Pawl.	7	13	4	8	7	11	8	12	8	12	5	8	4	8	8	9	11	13	8	9	9	9	6	9
<i>Euphorbia waldestreini</i> (Sojak) Czer.	9	15	3	10	7	10	5	11	5	8	3	7	5	9	6	14	5	15	4	15	3	12	6	8
<i>Euphrasia brevipila</i> Burn. et Gremli	8	16	6	9	5	9	4	8	4	8	4	7	6	8	4	11	11	18	2	14	5	10	6	9
<i>Euphrasia montana</i> Jord.	10	16	4	9	4	9	5	9	4	8	2	7	5	9	6	11	11	14	2	14	6	10	6	9
<i>Euphrasia parviflora</i> Schag.	6	13	6	9	7	11	4	8	4	7	3	6	6	8	4	10	11	18	1	10	7	12	7	9
<i>Euphrasia pectinata</i> Ten.	4	12	3	6	7	11	6	10	7	11	2	7	4	7	6	13	12	14	7	17	1	12	6	9
<i>Euphrasia rostkoviana</i> Hayne	10	17	4	9	5	9	4	7	4	8	5	9	8	11	5	11	11	16	1	11	5	12	6	9
<i>Euphrasia salisburgensis</i> Fueck	9	15	4	7	4	8	4	7	7	11	3	7	4	8	6	9	13	18	3	9	9	12	7	9
<i>Euphrasia stricta</i> D. Wolff ex J.F. Lehm.	7	13	3	6	5	11	6	12	7	11	1	5	4	7	7	11	8	14	1	10	6	12	6	9
<i>Euphrasia tatrae</i> Wettst.	8	15	3	7	4	9	3	7	6	10	2	6	4	7	3	4	15	18	5	7	7	11	7	9
<i>Euphrasia taurica</i> Ganesch. ex Popl.	8	12	3	6	7	12	5	12	8	11	2	8	3	6	8	9	11	13	7	8	9	9	7	9
<i>Fagopyrum tataricum</i> (L.) Gaertn.	8	16	4	7	5	11	3	8	5	9	5	9	5	8	6	12	7	15	5	17	3	10	6	9
<i>Fagus sylvatica</i> L.	8	16	4	6	7	11	5	9	7	10	2	9	5	8	6	13	12	15	3	8	9	12	1	4
<i>Falcaria vulgaris</i> Bernh.	3	13	3	11	7	12	5	14	4	12	1	7	3	7	6	13	8	14	5	17	6	11	6	9
<i>Ferula caspica</i> Bieb.	5	11	7	9	7	12	9	15	7	11	3	6	5	8	9	11	6	11	10	17	6	9	8	9
<i>Ferula orientalis</i> L.	5	11	5	9	6	12	6	12	6	10	3	6	4	7	10	12	10	11	10	15	9	11	8	9
<i>Ferula tatarica</i> Fisch. ex Spreng.	5	11	7	9	7	12	9	16	3	9	2	7	5	8	9	11	6	11	10	16	6	9	8	9
<i>Ferulago galbanifera</i> (Mill.) Koch	5	12	4	9	7	12	5	11	6	10	2	8	5	7	8	11	9	12	9	14	6	10	6	9
<i>Ferulago sylvatica</i> (Bess.) Reichenb.	10	15	3	6	6	11	5	10	5	9	3	8	6	9	8	11	11	13	8	11	8	10	5	8
<i>Ferulago taurica</i> Schischk.	5	13	4	9	7	12	5	12	9	12	1	8	5	7	9	11	10	13	7	11	9	10	7	9

Festuca altissima All.	8	15	2	4	3	9	5	9	4	8	4	9	7	10	6	12	12	16	2	10	6	12	2	6
Festuca apennina De Not.	9	18	3	6	3	7	3	9	3	7	3	8	7	10	5	6	16	18	6	8	8	10	6	9
Festuca beckeri (Hack.) Trautv.	5	12	3	9	5	10	5	11	3	9	1	6	3	6	7	9	8	12	10	15	6	10	7	9
Festuca callieri (Hack.) Markgr.	5	12	5	8	7	12	5	13	8	11	1	8	4	7	8	12	9	13	7	11	9	10	7	9
Festuca carpatica F. Dietr.	8	15	3	6	5	8	3	10	6	10	5	8	5	8	3	4	16	17	6	7	7	8	7	9
Festuca cretacea T. Pop. et Proskor.	4	9	2	6	9	12	7	12	9	13	2	7	4	7	9	10	10	12	9	12	8	9	7	9
Festuca drymeja Mert. et Koch	8	16	2	7	3	9	5	9	4	8	4	7	7	11	8	11	11	13	6	10	8	11	3	7
Festuca fallax Thuill.	8	15	3	6	3	7	3	7	3	7	3	7	5	8	5	8	14	16	6	8	6	9	6	9
Festuca gigantea (L.) Vill.	10	17	2	5	7	11	5	11	6	9	4	9	6	10	5	13	12	16	1	17	5	11	2	8
Festuca heterophylla Lam.	8	15	4	7	5	8	4	9	5	10	3	7	5	8	8	12	11	15	4	10	8	12	2	7
Festuca inarmata Schur	6	12	4	6	3	7	3	7	3	9	2	5	3	6	3	5	16	18	6	8	7	9	7	9
Festuca makutrensis Zapal.	5	14	6	9	5	10	3	11	5	10	3	6	3	7	8	11	11	14	8	8	9	9	6	9
Festuca multiflora Hoffm.	8	14	6	11	3	7	2	7	2	5	2	6	3	7	2	13	6	18	1	7	1	12	6	9
Festuca orientalis (Hack.) V. Krecz. et Bobr.	8	17	6	9	8	11	9	14	5	10	2	7	7	10	7	11	8	13	6	15	5	10	7	9
Festuca ovina L.	6	15	8	11	3	7	2	9	2	7	1	6	3	6	3	9	10	18	1	17	1	13	6	9
Festuca pallens Host	5	12	3	6	8	12	7	12	9	13	1	4	3	6	8	13	11	14	3	12	9	12	8	9
Festuca picta Kit.	9	15	4	6	3	8	3	7	3	7	2	7	4	7	4	6	14	16	6	8	6	9	7	9
Festuca polesica Zapal.	4	14	3	9	3	7	3	7	5	7	1	5	3	6	7	9	12	14	6	11	6	9	6	9
Festuca porcii Hack.	10	17	3	6	3	8	3	7	3	8	2	6	3	9	3	8	14	17	5	8	4	8	7	9
Festuca pratensis Huds.	9	15	4	9	6	10	4	11	6	10	5	9	6	8	4	12	5	17	1	15	4	11	6	9
Festuca pseudomalatica Krajina	6	13	6	10	7	12	7	15	6	10	3	7	3	7	7	12	9	12	7	15	5	11	6	9
Festuca pseudovina Hack. ex Wiesb.	5	14	6	10	7	12	7	15	6	9	3	7	3	7	7	10	10	13	9	14	6	11	6	9
Festuca rubra L. s. str.	8	18	4	9	5	9	2	9	2	5	3	7	6	10	2	13	6	18	1	17	1	12	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Festuca rupicola</i> Heuff.	5	14	6	9	5	11	5	12	7	11	5	9	4	7	7	11	8	13	6	17	5	11	6	9
<i>Festuca saxatilis</i> Schur	6	14	4	6	3	9	5	10	7	10	2	7	4	7	4	8	14	18	6	8	7	9	7	9
<i>Festuca supina</i> Schur	7	14	3	7	3	7	3	10	3	7	1	5	3	7	4	6	16	18	6	8	8	11	7	9
<i>Festuca taurica</i> (Hack.) A. Kerner ex Trautv.	4	13	3	6	2	7	3	7	2	7	2	5	3	6	9	11	10	12	10	11	9	11	7	9
<i>Festuca tenuifolia</i> Sibth.	7	14	3	9	1	6	3	7	3	7	1	6	3	7	7	11	12	17	1	8	9	11	6	9
<i>Festuca trachyphylla</i> (Hack.) Krajina	6	12	3	7	2	7	5	9	3	7	1	7	3	7	6	10	11	16	1	11	9	11	7	9
<i>Festuca valesiaca</i> Gaud.	2	12	5	9	5	12	5	14	5	10	2	7	4	7	6	13	6	13	6	17	4	11	7	9
<i>Festuca versicolor</i> Tausch	6	14	3	6	3	9	5	10	7	10	2	7	3	7	3	5	15	17	5	7	4	6	8	9
<i>Fibigia clypeata</i> (L.) Medik.	2	8	4	8	8	12	7	12	9	13	1	4	4	7	11	13	1	12	8	17	10	12	6	9
<i>Ficaria cathifolia</i> Reichenb.	9	17	2	7	6	11	6	13	7	10	5	11	5	11	9	12	10	13	6	11	9	12	3	8
<i>Ficaria verna</i> Huds.	9	17	2	7	7	11	5	9	7	10	5	11	5	10	6	12	10	16	1	13	6	12	3	7
<i>Filago arvensis</i> L.	1	13	3	9	3	7	5	9	4	8	1	6	3	6	5	13	6	15	2	17	6	11	6	9
<i>Filago minima</i> (Smith) Pers.	1	12	3	9	3	7	5	9	4	7	1	5	3	7	6	12	13	16	5	11	6	12	8	9
<i>Filago vulgaris</i> Lam.	3	12	2	5	6	10	5	11	5	11	2	7	3	7	7	12	10	16	3	11	9	12	7	9
<i>Filipendula denudata</i> (J. et C. Presl) Fritsch	10	18	3	10	6	10	5	10	4	9	3	10	10	13	3	11	10	18	1	17	1	12	4	8
<i>Filipendula vulgaris</i> Moench	5	13	3	6	7	11	5	10	6	10	4	10	5	8	6	13	9	15	3	14	5	12	6	9
<i>Fragaria campestris</i> Stev.	6	13	3	7	7	11	6	11	5	11	2	8	4	7	9	11	11	12	10	11	8	10	6	9
<i>Fragaria moschata</i> Duch.	5	15	3	7	5	11	5	10	5	9	5	9	4	6	6	12	11	14	4	12	8	11	6	9
<i>Fragaria vesca</i> L.	8	15	2	7	5	9	2	9	5	9	2	7	4	7	4	12	10	18	1	16	3	12	5	9
<i>Fragaria viridis</i> Duch.	5	13	3	7	7	11	5	10	7	9	3	9	4	7	5	11	10	14	4	17	4	12	6	9
<i>Frangula alnus</i> Mill.	9	19	2	7	1	7	2	9	8	10	1	7	5	11	4	12	8	18	2	15	4	13	4	7
<i>Frankenia hispida</i> DC.	8	17	7	11	12	13	14	17	6	9	3	6	5	11									8	9

Fraxinus angustifolia Vahl.	8	17	4	9	6	11	6	11	5	9	7	9	6	11	8	13	10	16	5	12	9	13	3	7
Fraxinus excelsior L.	8	17	2	7	7	10	4	11	6	9	6	11	6	10	6	13	10	17	1	12	7	12	2	6
Fraxinus ornus L.	6	13	4	7	6	10	4	10	3	11	3	7	4	7	9	13	9	12	6	12	8	12	5	8
Fraxinus oxycarpa Willd.	8	14	2	8	7	12	7	11	5	9	7	9	6	9	11	12	9	11	6	12	9	10	3	7
Fraxinus pennsylvanica Marsh.	5	11	5	9	6	11	5	10	3	9	3	9	5	9	7	13	7	13	10	12	6	11	3	7
Fritillaria meleagris L.	10	17	7	9	7	10	5	9	5	9	3	9	6	9	7	11	11	15	7	10	6	11	6	9
Fritillaria meleagroides Patrin ex Schult. et Schult fil.	8	15	6	10	5	12	5	13	5	9	2	8	6	9	7	11	10	12	9	16	5	9	6	9
Fritillaria ruthenica Wilkstr.	9	14	5	9	5	12	6	11	5	9	2	8	5	9	7	11	7	14	6	17	6	9	5	9
Fumana prokumbens (Dun.) Gren. et Godr.	3	8	2	4	8	12	10	14	7	13	1	5	3	6	8	13	6	15	3	17	8	13	8	9
Fumana thymifolia (L) Spach ex Webb	1	5	2	4	9	12	10	12	11	13	1	5	3	6	11	14	3	10	8	12	11	13	8	9
Fumana viscidula (Stev.) Juz.	1	5	2	4	9	12	10	13	11	13	1	5	3	6	11	14	1	10	10	17	10	13	7	9
Fumaria kralikii Jord.	3	9	8	11	8	11	9	12			1	4	3	6	10	12	6	12	10	17	9	12	7	9
Fumaria officinalis L.	7	15	6	11	6	9	5	11	4	11	5	9	3	7	5	15	1	20	2	15	6	13	6	9
Fumaria parviflora Lam.	8	14	8	10	7	10	4	8	7	11	1	4	5	8	7	15	1	15	3	18	9	13	6	9
Fumaria rostellata Knaf.	7	15	6	11	7	10	4	10	7	11	5	9	3	7	7	12	6	13	8	16	8	11	7	9
Fumaria schleicheri Soy.-Willern.	7	15	6	11	7	10	5	11	6	11	5	9	3	7	6	12	5	14	6	18	5	11	7	9
Fumaria vaillantii Liosel.	5	13	6	10	8	11	5	11	6	11	3	8	3	7	7	13	5	15	4	17	7	12	6	9
Gagea erubescens (Bess.) Schult. et Schult. fil.	5	13	4	8			5	9	8	10	3	7	4	7	6	11	9	14	7	11	6	9	6	9
Gagea lutea (L.) Ker-Gawl.	9	15	4	8	5	11	5	9	5	8	5	10	4	7	5	11	12	16	3	10	3	11	4	7
Gagea minima (L.) Ker-Gawl.	9	14	4	9	7	11	5	9	5	9	5	10	4	7	5	12	9	14	5	13	6	10	5	9
Gagea paezoskii (Zapat.) Grossh.	8	13			6	10	5	9	4	9	3	6	4	7	8	11	10	13	7	11	8	9	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Gagea pratensis</i> (Pers.) Dumort.	8	13	4	8	7	11	6	10	5	8	3	7	4	7	7	11	11	14	5	11	9	10	6	9
<i>Gagea pusilla</i> (F.W.Schmidt) Schult. et Schult. fil.	4	10	4	7	7	12	6	12	6	11	3	7	4	7	7	10	5	12	8	15	6	9	7	9
<i>Gagea spathacea</i> (Hayne) Salisb.	9	15	3	6	5	9	5	9	5	8	7	11	5	8	7	10	13	14	5	7	9	11	2	6
<i>Galanthus nivalis</i> L.	8	15	4	7	5	11	4	9	6	10	5	10	5	8	8	12	11	15	4	11	8	10	3	8
<i>Galanthus plicatus</i> Bieb.	9	13	4	7	7	11	5	9	6	10	3	10	5	8	8	11	10	13	7	9	7	10	2	8
<i>Galatella dracunculoides</i> (Lam.) Nees	5	11	5	7	5	12	7	11	6	10	3	7	4	7	8	14	10	14	7	14	7	10	6	9
<i>Galatella novopokrovskii</i> Zefir.	5	12	5	7	7	11	6	12	6	9	3	8	4	7	8	11	10	12	9	14	7	9	6	9
<i>Galatella punctata</i> (Waldst. et Kit.) Nees.	4	13	5	7	7	11	8	14	6	9	3	8	4	7	5	11	10	12	5	10	7	9	6	9
<i>Galeobdolon luteum</i> Huds.	8	16	4	6	5	11	4	9	4	9	3	9	6	9	5	12	11	15	3	10	7	12	1	5
<i>Galeopsis bifida</i> Boenn.	8	15	4	9	3	11	5	10	4	7	3	9	5	8	3	11	11	18	1	17	1	12	6	9
<i>Galeopsis ladanum</i> L.	8	14	3	11	5	11	3	11	2	10	1	7	3	8	3	11	8	16	5	11	5	11	6	9
<i>Galeopsis pubescens</i> Bess.	8	15	4	7	5	9	4	9	4	7	3	9	5	8	6	9	12	14	6	10	9	12	6	9
<i>Galeopsis speciosa</i> Mill.	8	17	4	7	7	11	5	10	3	7	3	9	5	8	3	10	11	18	2	12	5	11	5	9
<i>Galeopsis tetrahit</i> L.	8	17	4	9	5	9	4	9	4	8	5	10	4	7	3	10	12	20	1	11	7	12	5	8
<i>Gainsoga ciliata</i> (Rafin.) Blake	8	15	4	7	5	9	5	9	4	7	5	10	6	8	6	17	12	16	3	14	7	15	6	9
<i>Gainsoga parviflora</i> Cav.	8	15	4	7	5	9	5	10	4	7	5	9	6	8	6	17	10	16	3	16	6	15	6	9
<i>Galium album</i> Mill.	7	14	4	9					2	8			4	7	4	14	10	16	2	14	6	13	7	9
<i>Galium aparine</i> L.	8	16	3	9	5	9	4	12	4	7	8	11	6	9	4	13	6	18	2	13	6	13	3	7
<i>Galium articulatum</i> Lam.	7	17	3	9	7	10	5	11	4	7	7	10	6	9					10	12	6	9	5	9
<i>Galium attenuatum</i> Klokovet Zaverucha	5	11			7	11	6	11	4	7	2	8							2	15	5	13		
<i>Galium biebersteinii</i> Ehrend.	6	12	2	6	7	12	5	12	9	12	3	8	4	7	9	11	10	12	7	9	9	10	8	9



Galium boreale L.	8	16	7	9	5	11	4	11	5	10	3	5	4	8	2	12	8	18	1	9	9	11	5	9
Galium campanulatum Vill.	5	10	3	7	9	12	6	12	9	13	2	7	4	7					5	8	9	10	7	9
Galium elongatum C.Presl	13	18	7	10	8	12	7	12	9	11	7	10	8	11	6	14	9	15	7	12	9	13	6	9
Galium glaucum L.	5	10	3	7	9	12	6	12	9	12	2	7	4	7	8	11	12	14	7	11	9	11	7	9
Galium humifusum Bieb.	2	11	7	9	6	13	6	14	9	12	3	8	3	7	5	12	13	18	6	13	8	10	7	9
Galium intermedium Schult.	9	15	2	4	5	8	4	9	7	10	5	9	5	9	7	12	11	14	7	12	7	10	4	8
Galium mollugo L.	6	16	4	9	3	8	4	11	7	11	5	9	4	8	4	13	11	15	2	15	5	12	5	9
Galium octonarium (Klokov) Soo	3	9	3	7	7	11	6	11	9	11	3	8	4	7	9	10	10	12	9	17	6	10	7	9
Galium odoratum (L.) Scop.	8	15	2	5	5	11	5	10	8	10	5	10	5	9	6	12	11	18	7	12			1	5
Galium palustre L.	11	21	4	7	5	10	3	12	3	8	5	9	8	12	4	12	10	18	1	17	2	10	5	8
Galium rivale (Sibth. et Smith) Griseb.	9	18	4	9	5	10	4	10	4	7	6	10	6	9	7	11	3	11					4	8
Galium rotundifolium L.	8	15	2	6	5	7	4	6	2	5	5	9	5	8	7	11	11	14	6	11	9	11	1	4
Galium rubroides L.	6	17	7	9	5	11	5	12	5	12	5	9	3	9	7	11	10	14	7	9	6	11	6	9
Galium ruprechtii Pobed.	9	18	3	6	3	7	3	8	3	6	3	9	8	11	4	11	6	18	5	10	1	9	6	9
Galium ruthenicum Willd.	5	12	6	9	7	10	6	11	4	9	2	8	4	8	7	11	10	13	9	16	6	9	6	9
Galium spurium L.	4	16	5	9	7	12	5	9	3	7	3	9	4	8	4	13	11	18	5	17	3	13	6	9
Galium tenuissimum Bieb.	5	9	4	9	7	12	6	12	4	11	13	8	4	7	11	14	4	10	7	15	9	12	7	9
Galium tinctorium (L.) Scop.	5	13	4	8	7	12	5	11	7	11	3	9	5	8	6	13	11	14	1	15	5	12	6	9
Galium tricorutum Dandy	5	13	7	10	7	11	7	15	5	11	3	7	3	7	6	13	4	10	6	17	9	13	7	9
Galium uliginosum L.	11	18	2	5	5	9	5	10	4	9	7	10	8	11	3	11	11	17	5	12			4	9
Galium verum L.	3	16	3	11	7	12	3	15	5	12	2	7	3	7	3	13	3	15	2	16	6	12	6	9
Garidella nigellastrum L.	5	10	2	5	8	11	6	10	7	11	1	5	5	9	11	14	1	10	6	17	9	13	8	9
Gaudinopsis macra (Stev. ex Bieb.) Eig	3	11	3	9	7	12	5	12	4	10	2	6	3	6	11	14	3	10	7	15	9	12	8	9
Genista albida Willd.	6	13	3	6	7	13	5	11	8	13	1	8	4	7	7	9	11	13	7	8	9	10	8	9
Genista borysthonica Kotov	8	13	5	9	5	10	5	11	4	8	3	7	3	7	8	11	10	11	10	12	8	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SI	SII	SIA	CaI	CaA	NI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Genista depressa</i> Bieb.	6	13	3	6	7	13	5	12	8	13	2	8	4	7	9	10	10	12	7	9	9	11	7	6	
<i>Genista germanica</i> L.	5	13	5	9	4	6	3	6	5	9	1	6	3	7	7	12	12	14	6	9	7	11	5	9	
<i>Genista pilosa</i> L.	5	13			2	7	4	9	5	10	1	5	4	7	5	11	12	15	3	10	9	12	6	9	
<i>Genista scythica</i> Pacz.	6	13	3	6	7	12	5	12	9	12	2	8	4	7	8	10	10	12	9	11	8	9	7	9	
<i>Genista tanaitica</i> P. Smirn.	4	13	3	5	7	12	5	12	11	13	2	8	4	7	9	10	11	11	11	12	8	8	7	9	
<i>Genista tinctoria</i> L.	5	15	3	11	3	7	3	9	4	12	1	5	4	7	6	11	11	15	2	14	6	12	6	9	
<i>Gentiana acaulis</i> L.	9	14	3	6	4	8	4	9	5	9	2	6	3	7	3	7	14	17	4	8	7	9	7	9	
<i>Gentiana asclepiadea</i> L.	8	16	3	7	5	11	2	10	4	10	2	7	5	9	3	9	14	18	5	8	8	11	3	8	
<i>Gentiana cruciata</i> L.	5	16	4	8	5	10	5	10	6	11	2	7	4	8	5	13	10	14	6	13	5	12	6	9	
<i>Gentiana laciniata</i> Kit. ex Kanitz	10	14	3	6	3	8	3	10	3	7	2	7	3	7	3	7	14	17	4	8	7	9	7	9	
<i>Gentiana lutea</i> L.	10	15	3	6	3	8	3	10	3	8	3	8	4	7	3	8	13	17	4	8	7	10	7	9	
<i>Gentiana pneumonanthe</i> L.	10	17	5	9	6	10	4	8	4	7	3	5	5	9	6	12	8	15	3	15	5	12	6	9	
<i>Gentiana punktata</i> L.	8	16	3	6	1	7	3	9	5	8	2	6	4	8	3	7	15	17	4	8	7	9	5	9	
<i>Gentiana verna</i> L.	9	17	3	7	3	8	3	8	6	10	3	8	6	9	3	8	12	18	4	8	8	11	7	9	
<i>Gentianella amarella</i> (L.) Boern.	8	13	4	8	4	10	3	9	3	7	3	8	6	10	3	9	12	8	1	17	4	11	6	9	
<i>Gentianopsis ciliata</i> (L.) Ma	6	13	3	7	8	11	4	9	8	11	3	6	5	8	7	12	11	15	5	10	8	10	7	9	
<i>Geranium alpestre</i> Schur	10	16	2	6	5	8	3	9	4	7	2	8	6	10	4	6	14	18	5	7	7	8	7	9	
<i>Geranium bohemium</i> L.	7	13	4	8	5	10	5	9	5	8	5	9	5	7	5	11	10	14	6	10	7	10	5	9	
<i>Geranium collinum</i> Steph.	5	19	3	9	7	10	9	13	4	7	3	10	5	11	8	12	5	11	3	9	4	10	6	9	
<i>Geranium columbinum</i> L.	5	13	4	9	7	11	5	9	5	9	3	8	5	7	6	14	10	16	2	12	9	13	7	9	
<i>Geranium dissectum</i> L.	8	15	3	7	6	9	5	10	5	9	3	8	5	9	6	15	5	16	1	17	8	14	5	9	
<i>Geranium divaricatum</i> Ehrh.	7	13	4	8	5	10	4	10	5	9	5	9	4	7	6	13	5	14	3	11	5	11	5	9	
<i>Geranium lucidum</i> L.	9	15	3	7	7	11	5	9	4	7	5	9	5	9	6	14	6	16	2	11	9	13	3	5	
<i>Geranium molle</i> L.	4	13	3	10	5	9	5	10	4	9	3	7	4	7	7	13	6	16	1	12	7	14	6	9	
<i>Geranium palustre</i> L.	10	19	1	6	7	11	5	9	4	8	6	10	6	11	4	11	11	14	5	11	6	10	7	9	

Geranium phaeum L.	9	15	3	7	5	9	4	9	4	9	5	10	5	9	6	11	12	16	2	10	8	10	5	8
Geranium pratense L.	8	16	3	7	7	11	3	13	4	8	5	10	5	9	3	11	10	17	3	17	1	11	7	9
Geranium purpureum Vill.	7	14	3	7	7	11	5	10	5	10	3	10	3	7	9	15	5	15	2	16	9	14	7	9
Geranium pusillum L.	4	15	3	10	5	9	6	10	4	8	5	10	4	7	6	13	9	15	3	16	7	11	7	9
Geranium pyrenaicum Burm. fil.	9	15	3	7	6	9	5	10	4	7	5	9	5	9	6	12	10	15	3	13	9	11	4	8
Geranium robertianum L.	6	15	3	8	6	9	3	9	3	10	5	10	5	9	6	13	5	17	1	13	6	14	4	7
Geranium rotundifolium L.	5	14	4	9	5	11	3	9	5	9	3	7	4	8	6	13	5	15	3	15	8	13	6	9
Geranium sanguineum L.	5	14	3	9	7	11	5	10	7	10	3	7	5	8	7	12	11	16	3	12	6	12	6	9
Geranium sibiricum L.	8	15	3	7	5	11	5	10	5	10	5	9	5	9	6	10	10	14	6	17	1	11	6	9
Geranium sylvaticum L.	9	15	3	7	5	9	3	11	4	7	5	10	5	9	3	11	12	18	1	13	5	11	4	8
Geranium tauricum Rupr.	7	14	3	7	7	11	4	10	6	9	3	8	5	8	10	12	9	12	7	11	9	11	5	9
Geranium tuberosum L.	5	14	4	7	7	11	5	11	7	9	3	7	4	7	9	13	6	11	6	12	9	12	7	9
Geum rivale L.	10	19	3	7	5	11	2	9	4	7	3	7	9	12	3	11	10	18	1	14	5	11	5	8
Geum urbanum L.	9	17	4	9	7	11	3	9	4	7	5	10	5	9	5	13	9	18	1	17	5	12	3	6
Gladiolus imbricatus L.	9	17	5	9	6	11	5	13	5	9	5	9	5	9	6	12	11	15	6	15	6	11	6	9
Gladiolus italicus Mill.	5	13	3	7	8	11	7	12	9	11	4	7	3	7	10	14	6	14	5	11	10	14	6	9
Gladiolus palustris Caudin	9	17	7	9	7	11	3	7	4	9	3	9	7	10	7	10	11	13	6	10	9	10	6	9
Glaucium corniculatum (L.) J. Rudolph	5	13	7	10	7	10	7	13	4	9	3	7	6	10	8	14	6	13	7	17	9	13	7	9
Glaucium flavum Crantz	6	12	9	11	11	14	14	17	1	9	2	5	3	6	8	13	9	15	10	14	5	10	8	9
Glaux maritima L.	10	17	7	11	9	12	12	16	4	9	3	9	7	11	4	13	5	12	4	11	1	12	8	9
Glechoma hederacea L.	8	17	7	10	6	10	5	11	4	9	5	10	4	9	3	12	10	17	1	15	1	12	5	8
Glechoma hirsuta Waldst. et Kit.	8	15	4	6	5	11	4	9	4	9	3	9	5	8	6	11	11	13	6	11	7	12	4	7
Gleditsia triacanthos L.	8	15	5	9	5	11	4	9	4	9	6	10	5	8	7	15	7	11	5	10			5	9
Globularia trichosantha Fisch. et Mey.	5	13	3	7	7	11	7	12	9	12	3	7	4	8	10	12	6	12	6	13	9	11	7	9
Glyceria arundinacea Kunth	13	21	3	9	8	12	5	11	4	7	5	9	9	13	9	11	10	12	9	14	6	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	ReA	SII	SIA	CaI	CaA	NI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	Ch	CrA	LcI	LcA
<i>Glyceria fluitans</i> (L.) R. Br.	13	21	3	10	7	11	3	12	4	7	5	11	9	13	4	11	10	17	1	12	6	13	7	9
<i>Glyceria maxima</i> (C. Hartm.) Holmb.	15	21	3	9	7	11	4	13	4	7	6	10	9	13	5	11	10	15	2	16	4	12	7	9
<i>Glyceria nemoralis</i> (Uechtr.) Uechtr. et Koern.	15	20	3	6	7	11	4	11	4	7	7	11	9	13	7	11	11	15	5	10	7	11	4	8
<i>Glyceria plicata</i> (Fries) Fries	15	20	8	11	7	11	6	12	4	7	6	10	9	13	5	15	9	16	2	12	5	13	7	9
<i>Glycyrrhiza glabra</i> L.	2	15	8	11	10	13	9	15	4	9	3	9	3	7	8	12	5	11	7	15	6	10	6	9
<i>Gnaphalium luteo-album</i> L.	10	17	9	11	5	8			3	7	2	7	3	7	6	16	3	15	4	17	7	15	6	9
<i>Gnaphalium norvegicum</i> Gunn.	8	14	7	9	2	7	3	10	3	6	3	8	3	7	3	6	14	18	1	8	4	9	6	9
<i>Gnaphalium supinum</i> L.	10	17	5	7	3	7	3	9	5	9	1	7	3	7	3	7	14	18	5	13	5	9	7	9
<i>Gnaphalium sylvaticum</i> L.	8	15	7	9	1	7	3	9	5	10	4	9	4	7	5	12	11	18	5	12	5	12	5	8
<i>Gnaphalium uliginosum</i> L.	10	17	9	11	4	9	3	10	3	6	3	9	3	7	4	10	11	18	7	15	5	11	6	9
<i>Goniolimon besseranum</i> (Schult.) Kuhn.	2	8	8	10	8	13	9	14	8	12	3	7	5	7	9	11	10	11	10	11	9	10	8	9
<i>Goniolimon graminifolium</i> (Ait.) Boiss.	2	9	7	10	8	12	9	15	5	10	1	8	5	7	9	11	10	11	10	11	8	10	8	9
<i>Goniolimon rubellum</i> (S.G. Gmel.) Klokov	5	9	7	10	8	13	9	12	8	12	1	7	5	7	8	11	8	11	9	11	8	10	8	9
<i>Goniolimon tataricum</i> (L.) Boiss.	2	10	8	11	9	12	7	15	8	1	3	7	5	7	8	12	6	11	9	14	8	10	8	9
<i>Goodyera repens</i> (L.) R.Br.	8	15	2	6	5	9	1	7	8	10	1	6	4	8	4	12	3	15	5	12	7	9	3	7
<i>Gratiola officinalis</i> L.	13	21	3	9	4	10	4	9	2	5	3	9	8	13	6	13	11	15	3	17	6	12	7	9
<i>Grindelia squarrosa</i> (Pursh) Dun.	5	12	5	9	8	11	5	13	6	11	4	8	4	7	8	12								7
<i>Gymnadenia conopsea</i> (L.) R.Br.	9	16	4	7	6	11	4	9	5	11	2	7	6	11	3	12	11	17	1	17	1	12	6	9
<i>Gymnadenia odoratissima</i> (L.) Rich.	10	17	4	8	5	8	3	9	5	9	5	9	7	11	7	12	12	15	3	11	8	11	6	9
<i>Gymnocarpium dryopteris</i> (L.) Newm.	9	17	1	5	3	7	3	10	2	5	3	9	4	8	3	11	3	13	1	16	5	14	2	6

Gymnocarpium robertianum (Hoffm.) Newm.	9	14	1	4	7	11	3	9	9	12	3	7	3	8	5	10	10	17	3	17	3	12	2	7
Gymnospermium odesanum (DC.) Takht.	4	11	6	9	8	11	3	8	7	12	2	7	4	7	9	11	10	12	9	10	8	10	5	9
Gypsophila acutifolia Fisch. ex Spreng.	6	11	5	8	8	10	5	12	7	10	1	5	4	8	10	11	9	13	8	10	9	10	8	9
Gypsophila collina Stev. ex Ser.	5	12	4	9	7	11	7	9	8	12	1	4	4	7	9	11	10	12	9	11	9	10	7	9
Gypsophila elegans Bieb.	6	10	4	8	6	10	7	11	6	9	3	7	4	8	10	13	8	14	8	17	7	11	8	9
Gypsophila fastigiata L.	5	12	4	9	5	11	1	9	3	12	1	4	4	7	6	10	11	14	6	11	7	10	6	9
Gypsophila glomerata Pall. ex Adam	5	12	5	8	7	12	5	11	10	13	1	5	5	7	9	11	10	12	7	11	9	11	8	9
Gypsophila oligosperma A. Krasnova	4	10	6	10	7	11	5	12	3	10	3	7	4	6	8	9	6	8	9	12	8	8	7	9
Gypsophila paniculata L.	2	12	4	11	8	12	5	16	3	10	3	7	3	7	7	11	9	14	9	16	4	10	7	9
Gypsophila paulii Klokov	4	13	4	10	7	13	9	18	9	11	3	10	4	7	9	11	10	11	10	11	7	9	7	9
Gypsophila perfoliata L.	4	13	4	10	5	13	10	19	9	11	3	10	4	9	8	14	9	12	10	17	5	11	8	9
Gypsophila scorzonrifolia Ser.	8	15	8	11	8	13	9	17	9	12	1	7	4	8	7	10	9	12	12	16	4	8	8	9
Gypsophila thyraica A. Krasnova	4	12	4	10	8	11	4	12	8	13	1	7	3	7	6	11	10	13	8	16	6	9	7	9
Hackelia deflexa (Wahlenb.) Opiz	8	15	2	6	4	9	5	10	6	9	7	10	4	8	3	10	9	14	5	17	1	10	4	6
Halimione pedunculata (L.) Aell.	8	17	7	11	12	15	14	16	3	6	3	11	6	11	6	11	1	11	3	16	6	11	8	9
Halimione verrucifera (Bieb.) Aell.	8	17	7	11	12	15	14	17	3	6	3	11	5	10	9	12	3	11	8	17	6	10	8	9
Halocnemum strobilaceum (Pall.) Bieb.	5	15	5	11	11	15	11	18	3	7	4	10	3	7	8	15	3	11	1	7	5	13	8	9
Hammarbya paludosa (L.) O.Kuntze	15	19	2	5	1	4	1	4	1	3	2	4	9	12	6	10	13	18	3	10	4	11	7	9
Haplophyllum suaveolens (DC.) G. Don fil.	5	12	2	7	7	12	6	11	9	13	2	8	3	7	10	11	9	11	6	12	8	10	7	9
Hedera helix L.	8	15	3	7	7	11	4	9	9	11	3	9	5	9	7	13	10	18	1	12	9	13	2	6

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Hedera taurica</i> Carriere	8	15	3	7	6	11	5	10	9	11	2	8	5	9	9	12	10	12	8	9	10	10	2	7
<i>Hedysarum candidum</i> Bieb.	5	11	3	5	7	13	5	12	10	13	2	8	4	6	10	11	10	12	7	10	9	10	8	9
<i>Hedysarum cretaceum</i> Fisch.	4	12	2	4	8	13	9	12	11	13	1	7	3	6	9	10	10	12	7	8	6	8	8	9
<i>Hedysarum grandiflorum</i> Pall.	5	11	3	5	7	13	6	12	10	13	2	8	4	6	6	11	10	13	9	14	6	9	8	9
<i>Hedysarum hedysaroides</i> (L.) Schinz et Thell.	8	15	3	6	8	11	6	11	9	11	3	7	4	7	3	9	9	15	6	17	1	9	7	9
<i>Hedysarum tauricum</i> Pall. ex Willd.	7	13	2	4	8	13	9	12	11	13	1	6	3	6	11	12	9	10	8	9	9	10	8	9
<i>Hedysarum ucrainicum</i> Kaschm.	5	12	2	7	8	13	9	12	11	13	1	6	3	6	9	10	10	12	9	12	6	8	8	9
<i>Helianthemum canum</i> (L.) Baumg.	3	7	2	6	9	11	8	12	11	13	1	6	3	6	8	14	8	14	5	12	7	12	7	9
<i>Helianthemum cretophilum</i> Klakov et Dobroc.	3	6	2	4	9	12	10	12	12	13	1	4	3	6	9	10	10	11	11	12	8	9	8	9
<i>Helianthemum glaucescens</i> (Murb.) Tzvelev	6	10	5	8	8	11	7	11	12	13	1	5	4	6	8	11	11	15	9	11	8	11	7	9
<i>Helianthemum grandiflorum</i> (Scop.) DC.	6	13	5	8	7	11	5	12	11	13	1	8	4	6	3	5	12	18	3	8	7	10	7	9
<i>Helianthemum lasiocarpum</i> Willk.	3	8	7	10	9	11	8	12	8	13	1	7	5	8	11	14	6	11	6	17	10	12	7	9
<i>Helianthemum nitidum</i> Clementi	3	11	2	7	8	12	7	11	9	13	1	7	4	7	8	13	9	14	7	10	10	12	6	9
<i>Helianthemum nummularium</i> (L.) Mill.	3	19	4	9	8	11	5	11	9	12	2	6	5	7	6	13	6	14	5	17	6	12	6	9
<i>Helianthemum orientale</i> (Grosser) Juz. et Pozd.	4	9	6	9	7	11	5	12	10	13	2	5	4	6	9	12	8	13	9	12	9	11	7	9
<i>Helianthemum ovatum</i> (Viv.) Dun.	5	12	4	9	8	11	5	10	8	12	2	6	5	7	8	12	11	14	7	9	8	12	6	9
<i>Helianthemum salicifolium</i> (L.) Mill.	3	8	7	10	9	11	8	12	8	13	1	7	5	8	11	14	3	11	6	17	10	13	7	9
<i>Helianthemum stevenii</i> Rupr. ex Juz. et Pozd.	3	8	2	4	9	11	9	13	11	13	1	5	3	6	8	12	9	13	7	10	9	11	6	9



SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Heracleum palmatum</i> Baumg.	10	17	3	6	4	8	5	9	3	7	5	9	6	8	5	7	13	16	6	7	6	8	6	9
<i>Heracleum sibiricum</i> L.	9	19	2	7	5	10	3	15	3	7	3	8	5	11	3	11	8	18	3	15	5	10	5	9
<i>Heracleum spondylium</i> L.	8	16	2	7	5	11	5	9	4	8	5	10	5	10	5	9	11	16	1	12	9	11	6	9
<i>Herninium monorchis</i> (L.) R.Br.	10	17	3	6	7	11	7	11	7	11	3	7	8	11	6	12	12	15	3	17	3	11	5	9
<i>Herniaria besseri</i> Fisch. ex Hornem.	3	8	5	9	6	10	7	11	7	10	4	7	5	7	9	13	8	12	8	15	7	11	8	9
<i>Herniaria glabra</i> L.	5	14	3	10	5	8	2	8	4	7	3	7	5	8	6	14	6	15	2	17	6	13	7	9
<i>Herniaria hirsuta</i> L.	5	12	5	9	3	8	7	12	4	7	3	8	4	8	7	14	5	14	4	17	9	13	7	9
<i>Herniaria kotovii</i> Klokov	8	12	5	10	5	14	5	15	4	7	3	6	5	7	9	11	10	11	10	11	9	9	7	9
<i>Herniaria polygama</i> J. Gay	2	9	5	9	3	6	5	9	3	8	3	7	5	8	7	10	9	13	8	14	6	9	6	9
<i>Hesperis candida</i> Kit. ex Müggenb., Kanitz et Knapp	9	15	3	6	3	7	3	6			7	11	6	10	4	7	14	17	4	8	6	8	3	7
<i>Hesperis matronalis</i> L.	6	15	4	8	7	11	5	10	7	10	5	9	5	8	6	12	6	16	2	16	5	12	5	9
<i>Hesperis pycnotricha</i> Borbás et Degen	8	13	4	8	7	11	5	10	7	10	5	9	5	8	8	11	10	13	7	10	8	10	6	9
<i>Hesperis sibirica</i> L.	9	15	2	5	7	11	6	10	6	8	6	11	6	10	6	10	8	12	11	17	5	9	3	7
<i>Hesperis steveniana</i> DC.	5	11	4	8	7	11	7	10	8	11	4	8	5	8	11	12	9	11	8	9	9	11	5	9
<i>Hesperis suaveolens</i> (Andrz.) Steud.	9	14	2	6	7	9	5	8			4	8	5	8	8	11	11	14	7	11	8	10	5	8
<i>Hesperis tristis</i> L.	5	11	4	9	8	11	6	9	8	11	4	7	3	7	8	11	10	14	8	14	6	10	6	9
<i>Hesperis voronovii</i> N. Busch	8	13	4	7	8	10	4	8	7	11	7	11	5	8	7	9	10	13	10	15	7	9	3	7
<i>Hibiscus trionum</i> L.	3	15	3	11	7	11	5	11			3	8	3	9	6	15	8	17	1	13	7	15	7	9
<i>Hieracium alpinum</i> L.	8	16	4	7	2	5	3	6	4	9	3	5	4	8	3	8	14	18	2	7	4	10	7	9
<i>Hieracium aurantiacum</i> L.	8	16	4	7	3	7	3	9	4	7	2	5	5	8	4	8	13	17	7	11	7	9	7	9
<i>Hieracium auricula</i> Lam. et DC.	9	17	5	9	3	7	3	9	4	6	3	6	5	10	5	12	12	16	5	10	7	11	6	9



Hieracium bauginiflorum (Naeg. et Peter) Juxip	5	14	4	8	6	12	5	12	7	10	2	7	4	7	7	11	10	14	8	12	7	11	7	9
Hieracium bupleurifolium (Tausch) Juxip	9	15	3	7	4	9	3	8	4	7	5	9	5	8	4	7	15	18	1	5	4	11	4	9
Hieracium bupleuroides C.C.Gmel.	5	13	4	8	9	12	6	12	8	10	3	7	4	7	6	7	14	18	5	7	8	9	8	9
Hieracium caesium (Fr.) Fr.	6	14			3	7	3	6	6	9	2	7	4	7	3	8	14	18	2	8	7	10	6	9
Hieracium calomastix Naeg. et Peter	7	12					5	12	9	9	1	8							6	8	8	9		
Hieracium cymanthum (Naeg. et Peter) Juxip	6	12	5	8	7	12	6	12	9	12	2	8	3	6	9	14	9	12	6	12	9	12	8	9
Hieracium cymigerum Reichenb.	5	14	6	10	7	11	6	11	7	10	3	8	3	7									6	9
Hieracium cymosum L.	5	11	4	8	7	11	6	12	5	10	2	7	4	7	5	12	10	16	5	15	5	10	6	9
Hieracium echioides Lumn.	3	11	4	8	7	11	3	11	3	10	2	4	3	7	6	12	9	14	7	17	5	10	6	9
Hieracium gentile Jord. ex Boreau	8	14	4	7	6	11	4	10	7	10	2	8	5	8	4	9	12	18	2	12	7	10	5	8
Hieracium hoppeanum Schult.	7	15	5	8	8	11	7	11	6	8	1	6	5	8	10	12	6	12	7	11	9	12	7	9
Hieracium laevigatum Willd.	8	14	3	7	4	6	3	7	5	7	2	5	4	7	4	12	12	18	5	9	5	11	6	9
Hieracium murorum L.	8	14	4	7	6	11	4	10	6	9	2	8	5	8	4	12	12	18	1	11	5	11	5	8
Hieracium pilosella L.	5	14	6	10	3	9	2	9	3	9	1	5	3	7	4	12	10	18	1	14	5	12	6	9
Hieracium piloselloides Vill.	7	13			7	11	7	12			1	6	4	7	5	12	12	14	7	10	6	11	5	9
Hieracium pratense Tausch	10	15	5	9	7	10	6	11	4	7	3	7	4	8	5	10	11	14	8	14	5	11	6	9
Hieracium scabiosum Sudre	8	15	5	8	5	8	5	9	5	9	4	7	4	8	7	12	12	16	3	11	7	12	6	9
Hieracium tephropodium (Zahn) Juxip	5	13	4	7	7	12	7	12	8	11	2	8	3	7	9	11	10	12	7	8	9	10	8	9
Hieracium transsilvanicum Heuff.	6	14	3	7	6	12	6	11	4	7	3	8	4	8	4	6	16	18	6	8	7	9	6	8
Hieracium umbellatum L.	7	15	3	9	3	7	3	10	4	9	1	5	3	7	3	13	7	17	1	17	4	12	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Hieracium umbellosum</i> (Naeg. et Peter) Juxip	6	11	3	7	5	8	6	11	8	10	3	8	3	7	9	11	10	12	6	11	9	10	6	9
<i>Hieracium villosum</i> Jacq.	8	15	3	7	6	11	5	10	7	10	2	5	4	7	5	6	16	18	6	7	7	9	7	9
<i>Hieracium virosum</i> Pall.	6	13	3	8	7	11	5	12	5	10	3	8	4	7	3	9	3	14	6	17	5	10	6	9
<i>Hierochloe australis</i> (Schrad.) Roem. et Schult.	7	13	6	9	3	7	2	6	3	7	3	6	3	7	6	10	11	14	5	8	8	9	6	9
<i>Hierochloe odorata</i> (L.) Beauv.	8	18	6	9	3	7	2	11	3	7	3	9	3	7	3	10	9	18	1	17	1	11	5	9
<i>Hierochloe repens</i> (Host) Beauv.	6	12	6	9	7	12	6	11	7	10	3	8	4	7	7	11	11	13	7	13	6	9	5	9
<i>Himantoglossum caprinum</i> (Bieb.) C.Koch	6	14	6	9	7	12	7	13	9	11	3	8	4	7	10	13	8	11	8	9	10	11	7	9
<i>Hippocrepis comosa</i> L.	6	13	3	6	7	11	5	10	10	13	1	5	4	7	7	12	10	15	3	12	8	12	7	9
<i>Hippocrepis umisiliquosa</i> L.	3	11	3	6	9	12	9	13	8	11	2	8	3	7										
<i>Hippophae rhamnoides</i> L.	6	13	4	9	7	11	7	12	6	9	1	5	5	7	7	13	11	16	2	17	5	11	7	9
<i>Hippuris lanceolata</i> Retz.	13	21	2	5	7	11	5	11	6	9	3	9	13	15	2	13	10	20	1	17	1	12	6	9
<i>Hirschfeldia incana</i> (L.) Lagr. - Foss.	5	10	7	10	9	12	6	11	8	11	3	6	6	8	10	14	1	16	3	17	10	12	8	9
<i>Holcus lanatus</i> L.	8	19	6	9	3	8	5	9	3	6	3	9	4	7	5	12	9	18	1	12	7	13	6	9
<i>Holcus mollis</i> L.	8	15	7	10	1	7	4	9	3	6	1	7	3	7	6	12	11	18	1	11	8	12	5	9
<i>Holosteum glutinosum</i> (Bieb.) Fisch. et Mey.	5	11	8	11	9	12	9	18	8	11	2	6	5	9	8	12	3	13	9	17	8	10	7	9
<i>Holosteum umbellatum</i> L.	5	12	5	10	6	13	6	16	8	11	3	8	5	9	7	14	7	15	2	17	6	12	6	9
<i>Homogyne alpina</i> (L.) Cass.	8	16	4	7	4	7	3	10	4	7	1	6	4	7	3	6	15	18	3	7	5	7	5	9
<i>Hordelymus europaeus</i> (L.) Harz	9	14	3	6	6	9	5	9	4	9	4	10	6	8	7	12	12	15	4	11	9	11	1	5
<i>Hordeum bulbosum</i> L.	8	13	4	7	7	12	5	11	7	10	2	10	4	7	11	14	3	11	7	17	9	11	8	9
<i>Hordeum geniculatum</i> All.	8	12	7	10	7	11	3	16	2	6	2	5	5	8	10	14	3	15	2	17	7	13	8	9
<i>Hordeum leporinum</i> Link	5	11	6	9	7	11	5	12	3	9	3	11	3	7	8	14	3	15	6	17	8	12	7	9
<i>Hordeum murinum</i> L.	5	13	6	9	7	11	5	11	3	9	3	9	3	7	8	14	6	15	1	13	8	12	7	9

Hornungia petraea (L.) Reichenb.	4	9	4	9	6	12	3	11	5	11	1	5	3	5	7	14	9	15	3	10	9	12	7	9
Hottonia palustris L.	16	19	5	9	5	9	5	9	3	7	3	9	11	14	6	12	11	14	3	10	7	12	6	9
Humulus lupulus L.	10	18	2	7	5	11	4	10	3	8	5	10	8	12	6	13	12	20	6	15	6	13	4	9
Huperzia selago (L.) Bernh. ex Schrank et Mept.	8	16	1	5	3	8	2	10	1	5	3	9	3	7	1	14	7	23	1	17	2	12	2	5
Hyacinthella leucophaea (C.Koch) Schur	4	10	3	7	7	11	6	10	8	11	3	6	4	7	9	12	10	12	7	13	6	11	7	9
Hyacinthella pallasiana (Stev.) Losinsk.	4	10	3	7	7	11	7	11	9	11	3	6	3	7	10	11	10	11	9	11	9	9	7	9
Hydrocharis morsus-ranae L.	17	23	3	9	5	9	3	11	3	7	7	10	12	15	4	12	3	13	3	14	5	11	7	9
Hydrocotyle vulgaris L.	13	18	7	10	3	7	3	7	5	9	2	6	8	11	6	16	6	18	1	7	9	13	7	9
Hymenolobus procumbens (L.) Fourr.	6	12	7	11	11	14	14	18	6	11	1	5	7	11	8	16	1	14	4	17	7	15	8	9
Hyoscyamus niger L.	5	13	4	9	5	11	4	10	4	8	7	11	4	8	5	13	3	18	2	17	3	13	7	9
Hypericum alpinum Kit.	10	16	3	6	3	8	3	10	2	7	1	7	6	9	3	6	14	19	3	9	6	9	6	9
Hypericum elegans Steph. ex Willd.	3	13	7	10	6	11	6	11	7	11	1	7	3	7	6	12	5	12	6	13	5	10	6	9
Hypericum hirsutum L.	5	14	3	9	7	11	5	9	5	9	5	10	4	8	6	10	3	15	3	15	5	11	5	8
Hypericum humifusum L.	10	17	2	7	3	7	4	5	3	7	2	5	6	11	7	9	11	15	1	9	9	12	6	9
Hypericum linarioides Bosse	5	13	4	9	7	12	6	11	7	13	4	9	4	7	9	11	8	11	7	9	9	10	6	9
Hypericum lydiu Boiss.	6	10	3	7	9	11	7	11	9	13	4	6	4	6	9	11	9	12	7	11	8	10	7	9
Hypericum maculatum Crantz	9	17	2	7	3	7	3	10	4	7	1	5	5	11	2	9	14	19	1	12	5	11	6	9
Hypericum montanum L.	8	13	2	9	5	9	4	8	4	10	2	7	5	8	6	14	11	13	3	10	8	12	5	9
Hypericum perforatum L.	5	16	1	8	5	11	3	13	3	11	3	9	5	8	5	14	6	15	2	15	5	13	6	9
Hypericum tetrapterum Fries	11	18	2	5	4	9	3	10	4	10	3	8	7	11	7	11	10	14	8	11	8	10	7	9
Hypochoeris glabra L.	5	13	6	8	3	7	4	7	4	7	1	5	3	7					1	12			7	9
Hypochoeris radicata L.	8	15	6	8	3	7	4	9	4	8	2	6	3	7	6	13	3	11	5	11			5	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SIH	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Hypopitys monotropa</i> Grantz	9	13	4	6	3	7	1	5	1	4	3	7	5	7	6	10	11	15	6	11	5	11	1	3
<i>Hyssopus cretaceus</i> Dubyan.	4	13	3	5	9	13	9	14	10	13	1	5	3	6	9	10	6	9	10	12	8	9	8	9
<i>Iberis amara</i> L.	6	11	5	9	8	11	6	10	7	10	6	9	6	8	8	13	12	15	4	11	7	11	6	9
<i>Iberis pinnata</i> L.	5	9	6	10	9	12	8	12	9	12	6	9	5	8	11	13	9	14	6	9	10	13	7	9
<i>Iberis saxatilis</i> L.	3	8	3	7	11	13	7	11	9	13	1	4	3	6	9	13	10	13	7	10	9	12	7	9
<i>Iberis simplex</i> DC.	3	8	3	7	10	13	7	11	6	13	1	4	3	6	11	12	1	10	9	11	9	11	7	9
<i>Iberis umbellata</i> L.	6	11	4	8	8	11	6	11	5	10	6	9	6	8	11	12	11	14	6	8	7	12	6	9
<i>Impatiens glandulifera</i> Royle.	10	18	3	6	7	11	5	9	4	7	7	11	7	11	5	15	7	13	4	10	7	9	5	9
<i>Impatiens noli-tangere</i> L.	10	17	3	10	5	11	5	9	4	7	7	11	8	11	4	14	11	17	2	16	1	12	2	6
<i>Impatiens parviflora</i> DC.	8	15	3	10	7	11	5	9	3	9	5	9	7	11	6	14	3	13	3	17	6	11	2	6
<i>Inula aspera</i> Poir.	5	14	4	7	7	12	7	11	7	11	3	8	5	8	6	13	2	14	9	16	6	10	6	9
<i>Inula britannica</i> L.	8	17	5	9	7	11	5	12	5	9	3	9	6	10	3	12	5	14	1	17	1	11	6	9
<i>Inula conyza</i> DC.	5	13	3	8	7	11	5	11	7	10	2	6	4	7	8	12	11	15	3	9	9	12	5	9
<i>Inula ensifolia</i> L.	3	13	3	7	7	12	7	12	11	13	1	6	4	7	8	12	11	13	6	12	8	12	6	9
<i>Inula germanica</i> L.	5	13	4	7	7	11	6	11	8	11	3	7	5	8	6	12	6	13	6	16	6	10	6	9
<i>Inula heleniuv</i> L.	8	16	6	9	5	9	5	11	4	8	5	9	7	11	5	13	10	15	4	12	5	11	5	9
<i>Inula hirta</i> L.	5	12	4	7	7	11	5	13	7	11	2	7	4	7	5	12	10	14	1	15	6	12	6	9
<i>Inula oculus-christi</i> L.	5	11	5	9	7	11	6	10	9	12	2	8	4	7	7	13	7	13	6	14	6	11	6	9
<i>Inula sabuletorum</i> Czern.ex Lavr.	8	13	7	10	5	12	5	15	4	9	2	7	3	7	8	12	4	12	10	15	6	9	6	9
<i>Inula salicina</i> L.	8	17	4	7	7	12	5	13	5	9	3	7	5	8	4	13	12	14	2	17	1	12	6	9
<i>Inula thapsoides</i> (Bieb. ex Willd.) Spreng.	13	18	4	6	7	11	7	11	7	10	6	9	6	10	9	12	9	12	7	12	9	10	4	6
<i>Iris germanica</i> L.	7	13	5	9	7	11	3	8	4	9	3	9	5	9	6	15	11	13	5	12	9	12	7	9
<i>Iris graminea</i> L.	5	12	3	6	6	11			4	9	4	9	4	8	9	11	10	13	8	11	8	11	5	9
<i>Iris halophilla</i> Pall.	8	13	8	11	7	12	7	16	5	9	3	8	5	9	7	11	6	13	9	17	5	9	7	9

Iris hungarica Waldst. et Kit.	5	14	3	6	7	11	7	10	5	10	3	7	4	7	7	12	10	13	7	13	7	9	5	9
Iris pontica Zapal.	4	11	3	6	5	11	5	12	4	11	2	7	3	7	9	12	9	11	10	15	8	11	7	9
Iris pseudacorus L.	16	19	3	8	5	9	5	11	4	9	5	10	10	13	6	13	9	18	1	13	6	13	5	8
Iris pumila L.	2	10	3	6	7	11	7	11	9	12	1	6	4	7	8	13	9	12	7	13	6	11	8	9
Iris sibirica L.	8	18	4	9	7	11	6	10	4	7	2	7	6	11	5	12	10	14	6	12	5	10	7	9
Isatis campestris Stev. ex DC.	4	10	3	6	8	11	7	13	4	11	1	6	4	7	9	14	8	13	8	16	7	13	6	9
Isatis costata C.A. Mey.	5	10	3	6	7	11	5	11	7	10	2	6	4	7	7	10	5	9	12	17	8	12	6	9
Isatis littoralis Steven ex DC.	4	9	7	11	10	13	11	15			1	3	3	6	11	12	9	10	8	9	9	10	8	9
Isatis praecox Kit. ex Tratt.	4	10	3	6	8	11	7	13	8	11	2	6	4	7	6	12	6	13	8	17	6	11	6	9
Isatis taurica Bieb.	5	11	3	6	7	11	5	11	7	10	2	5	3	7	10	12	9	11	8	11	8	10	7	9
Isatis tinctoria L.	5	11	3	6	7	11	5	11	7	9	2	6	4	7	4	4	11	15	2	16	5	12	7	9
Isoetes lacustris L.	20	23	1	5	3	7	3	9	5	10	1	5	11	14	4	9	13	23	1	8	7	11	5	8
Isopyrum thalictroides L.	8	16	5	7	7	11	5	9	5	9	4	9	5	8	8	11	12	16	5	11	9	12	3	5
Jasione montana L.	5	13	3	8	2	7	3	8	3	7	1	5	3	6	6	11	9	16	7	11	6	13	6	9
Jasminum fruticans L.	4	11	2	6	7	12	5	12	8	11	3	8	3	7	11	14	6	12	4	12	10	13	6	9
Jovibarba preissiana (Domin) Omelcz. et Czopik	7	13	3	6	7	10	5	8	8	11	2	7	3	6	5	9	12	17	6	9	7	9	7	9
Jovibarba sobolifera (Sims.) Opiz	7	14	3	6	4	9	4	7	4	7	1	6	3	6	7	9	12	14	6	10	7	9	6	9
Juncus acutiflorus L.	10	18	3	6	5	8			2	5	3	8	10	14	7	12	9	16	1	10	10	12	8	9
Juncus articulatus L.	10	19	5	10	7	10	4	11	3	7	3	5	7	12	3	13	3	18	1	17	4	13	6	9
Juncus atratus Krock.	12	19	3	9	7	11	5	14	3	7	3	9	7	12	6	11	6	14	6	13	5	10	7	9
Juncus bufonius L.	9	17	3	9	3	7	4	11	3	7	3	9	7	12	2	15	5	18	3	13	1	11	5	9
Juncus bulbosus L.	12	21	2	7	2	6	3	9	2	5	3	7	7	13	4	15	12	18	1	9	6	13	7	9
Juncus capitatus Weig.	10	17	3	9	6	10	4	10	4	7	2	7	7	12	7	14	7	14	3	12	8	12	7	9
Juncus castaneus Smth	10	17	2	5	5	9	3	8	4	7	2	0	9	12	2	8	13	18	1	17	1	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Juncus compressus</i> Jacq.	10	19	3	9	5	11	6	14	4	7	3	9	7	12	5	11	5	15	2	15	5	12	7	9
<i>Juncus conglomeratus</i> L.	10	21	3	9	4	7	3	8	3	7	3	8	7	12	4	11	10	18	1	12	7	12	6	9
<i>Juncus effusus</i> L.	10	19	5	11	3	7	3	10	3	6	3	7	7	12	4	11	10	18	1	15	3	15	6	9
<i>Juncus filiformis</i> L.	11	18	5	9	3	7	3	7	3	7	3	7	7	12	3	11	10	18	6	12	1	12	6	9
<i>Juncus gerardii</i> Loisel.	9	18	5	10	9	12	9	16	4	7	3	8	7	12	3	11	5	18	4	17	6	12	7	9
<i>Juncus inflexus</i> L.	10	17	5	9	7	11	5	13	3	6	3	7	7	12	7	13	5	16	2	17	7	13	7	9
<i>Juncus maritimus</i> Lam.	10	15	7	11	10	13	14	17	3	7	2	10	5	12	7	15	5	15	1	17	10	13	7	9
<i>Juncus sphaerocarpus</i> Nees	10	17	7	11	9	13	10	16	4	7	3	7	6	11	8	14	6	14	6	16	6	14	7	9
<i>Juncus squarrosus</i> L.	10	18	4	9	1	5	1	6	3	7	1	5	7	12	6	10	13	18	1	8	9	11	7	9
<i>Juncus subnodulosus</i> Schrank	11	18	4	8	8	12	5	10	6	11	5	9	8	13	7	14	9	15	2	10	10	13	7	9
<i>Juncus tenageia</i> Ehrh.ex L. fil.	10	17	6	11	3	7			4	7	3	7	8	12	7	14	9	15	4	15	6	13	7	9
<i>Juncus tenuis</i> Willd.	9	15	5	11	5	9	5	9	4	7	3	8	7	13	7	11	10	16	1	14	7	14	5	9
<i>Juncus trifidus</i> L.	8	13	2	6	3	7	3	8	3	3	1	5	5	9	2	8	14	18	1	7	5	11	7	9
<i>Juncus triglumis</i> L.	14	18	2	5	7	10	3	8	8	10	2	6	9	12	5	14	5	18	1	17	1	12	7	9
<i>Juniperus communis</i> L.	5	17	1	5	5	11	1	7	5	11	1	5	4	7	4	13	3	23	1	17	1	12	5	9
<i>Juniperus excelsa</i> Bieb.	3	11	1	6	7	12	4	11	5	12	1	8	4	7	8	13	2	12	6	17	9	12	5	9
<i>Juniperus foetidissima</i> Willd.	4	11	1	6	7	11	4	8	8	13	2	6	4	8	8	13	7	12	6	15	9	12	6	9
<i>Juniperus hemisphaerica</i> J. et C. Presl.	6	13	1	4	7	12	3	9	9	12	2	6	4	7	7	11	9	13	6	10	9	10	7	9
<i>Juniperus oxycedrus</i> L.	4	11	1	3	7	12	4	11	6	11	1	8	4	7	8	14	7	14	2	14	9	11	6	9
<i>Juniperus pygmaea</i> C. Koch	8	12	1	4	7	12	3	8	9	12	2	6	4	7	7	11	9	13	6	10	9	10	7	9
<i>Juniperus sabina</i> L.	4	13	1	4	7	12	4	10	9	12	1	7	4	7	7	9	8	15	6	14	5	10	7	9
<i>Juniperus sibirica</i> Burgsd.	11	14	1	5	7	11	2	7	8	13	1	7	4	7	4	8	8	15	6	7	8	9	6	9
<i>Juniperus virginiana</i> L.	8	14	1	5	7	11	5	10	5	9	2	6	4	8	9	13	8	12	6	12	6	12	6	9

Jurinea arachnoidea Bunge	5	11	3	6	7	11	7	12	9	13	2	7	3	7	8	11	10	11	8	14	8	10	8	9
Jurinea brachycephala Klokov	4	12	3	6	8	13	7	14	9	13	2	8	4	7	9	11	10	12	9	11	8	10	8	9
Jurinea calcarea Klokov	5	11	3	6	7	11	7	12	9	13	2	7	3	7	8	11	10	13	7	11	9	9	8	9
Jurinea cyanooides (L.) Reichenb.	3	13	3	9	3	12	3	12	4	11	2	5	3	7	7	10	6	13	10	7	5	8	6	9
Jurinea laxa Fisch. ex Iljin	5	12	3	11	5	11	5	12	4	11	1	7	3	6	8	11	10	11	9	11	8	9	8	9
Jurinea multiflora (L.) B. Fedtsch.	4	8	3	6	7	12	6	12	8	10	2	8	3	7	7	11	9	11	10	15	6	9	8	9
Jurinea pseudomollis Klokov	7	13	3	6	7	11	8	13	8	13	3	6	4	7	7	11	10	12	10	14	6	9	7	9
Jurinea salicifolia Grun.	7	14	3	9	4	11	4	12	7	10	2	6	3	7	8	11	10	13	9	11	8	9	6	9
Jurinea sordida Stev.	5	12	3	6	7	12	7	13	9	13	2	8	4	7	9	11	10	12	7	8	9	10	7	9
Jurinea stoechadifolia (Bieb.) DC.	5	10	3	6	8	13	8	14	9	13	2	8	3	7	9	10	10	12	7	11	9	10	8	9
Kickxia elatine (L.) Dumort.	8	13	3	10	7	10	3	7	4	9	3	8	3	6	8	13	8	15	3	9	9	12	6	9
Kickxia spuria (L.) Dumort.	8	13	7	10	7	10	11	15	10	13	2	7	3	6	8	14	8	15	2	13	9	13	6	9
Knautia arvensis (L.) Coult.	5	16	4	10	5	11	4	12	4	9	2	7	5	8	5	12	11	16	2	16	5	9	6	9
Knautia dipsacifolia Kreuzer	9	17	4	7	6	8	3	10	4	8	3	9	4	8	7	10	13	17	6	9	7	10	5	9
Kochia laniflora (S.G. Gmel.) Borb.	3	10	3	11	5	12	5	11	3	7	1	8	3	7	8	13	6	14	8	17	6	10	6	9
Kochia prostrata (L.) Schrad.	1	10	3	11	5	12	6	15	5	12	1	6	3	7	7	13	5	14	7	17	6	13	8	9
Koeleria brevis Stev.	6	13	3	6	6	13	5	11	5	12	2	8	4	7	9	10	10	13	7	12	9	11	8	9
Koeleria cristata (L.) Pers.	1	13	5	8	5	12	5	19	7	10	2	7	4	7	4	13	5	16	1	17	1	13	7	9
Koeleria delavignei Czern. ex Domin	7	16	6	9	7	10	5	10	4	8	3	8	3	7	6	10	5	16	8	14	5	9	6	9
Koeleria glauca (Spreng.) DC.	1	15	5	9	7	12	4	10	4	8	1	5	3	7	6	11	8	14	5	16	3	10	7	9
Koeleria grandis Bess. ex Gorski	7	13	5	9	3	8	4	8	3	9	2	5	3	7	5	9	11	13	4	8	9	9	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Koeleria lobata</i> (Bieb.)Roem. et schult.	6	12	3	6	7	12	7	13	9	12	1	8	4	7	9	14	9	12	7	11	9	10	8	9
<i>Koeleria sabuletorum</i> (Domin)Klokov	5	13	3	9	5	12	5	12	8	11	1	6	3	6	7	11	5	10	9	11	8	9	8	9
<i>Koeleria talievii</i> Lavr.	3	8	3	7	7	11	7	13	8	13	2	8	4	7	9	10	9	11	9	12	8	9	7	9
<i>Kohlrauschia prolifera</i> (L.) Kunth	5	10	4	9	7	12	6	13	4	10	1	5	5	7	7	13	9	14	2	12	9	12	7	9
<i>Lactuca chaixii</i> Vill.	9	15	4	8	6	11	5	9	9	13	3	9	5	8	7	11	10	13	6	12	5	10	3	8
<i>Lactuca saligna</i> L.	5	17	6	9	10	14	10	17	6	9	3	10	7	11	9	14	8	14	6	17	6	13	7	9
<i>Lactuca serriola</i> Torner.	3	16	4	9	7	11	6	12	6	11	3	7	4	8	6	13	3	15	1	17	5	13	7	9
<i>Lactuca tatarica</i> (L.) C.A. Mey.	5	16	6	10	7	15	5	15	5	9	3	11	4	9	5	15	5	12	2	12	3	9	7	9
<i>Lagoseris purpurea</i> (Willd.) Boiss.	5	13	2	5	7	12	5	12	1	13	2	8	3	6	8	10	10	12	7	9	7	9	8	9
<i>Lagoseris sancta</i> (L.) K. Maly	6	11	4	8	7	12	6	15	5	12	3	8	4	8	9	12	9	11	7	14	8	10	7	9
<i>Lamium album</i> L.	7	16	6	10	6	10	4	9	5	9	7	11	6	9	3	13	11	16	2	17	3	12	6	9
<i>Lamium amplexicaule</i> L.	5	13	6	10	5	10	6	9	4	9	5	10	4	9	4	13	8	16	2	16	1	14	6	9
<i>Lamium glaberrimum</i> (K. Koch) Taliev	5	14	2	5	7	12	5	12	11	13	3	8	3	5	7	9	12	13	7	8	7	9	7	9
<i>Lamium maculatum</i> (L.)L.	8	16	6	10	7	11	4	9	4	9	7	11	6	9	5	12	11	14	3	11	6	12	4	8
<i>Lamium purpureum</i> L.	8	17	5	9	7	11	5	9	5	10	6	11	6	9	3	13	4	16	2	15	4	12	5	9
<i>Lappula barbata</i> (Bieb.)Guerke	4	11	4	9	7	12	6	12	4	12	1	8	4	7	9	12	5	11	6	16	8	11	7	9
<i>Lappula patula</i> (Lehm.)Menyharth	6	11	4	9	7	12	6	12	9	12	1	7	4	7	7	13	4	14	6	17	6	9	7	9
<i>Lappula squarrosa</i> (Retz.)Dumort.	4	13	4	10	7	11	7	10	5	10	4	10	4	8	3	13	6	14	5	17	1	11	7	9
<i>Lapsana communis</i> L.	8	17	4	8	5	10	5	9	5	9	5	10	4	9	5	13	11	18	1	17	4	12	3	7
<i>Lapsana intermedia</i> Bieb.	7	17	4	8	7	10	5	11	5	9	3	8	4	9	10	12	9	12	7	12	9	12	3	7
<i>Larix decidua</i> Mill.	8	16	2	5	4	10	4	7	4	9	2	6	4	10	4	9	12	17	4	10	7	11	6	9



Larix polonica Racib.	8	17	2	5	4	7	2	7	2	7	3	8	5	10	7	8	12	16	6	10	9	10	6	9
Laser trilobum (L.)Borkh.	7	13	4	6	6	11	5	11	7	10	3	8	5	8	7	12	3	13	5	11	6	12	3	6
Laserpitium alpinum Waldst. et Kit.	8	15	3	6	4	8	3	10	4	7	2	7	4	7	5	6	15	17	6	7	6	8	7	9
Laserpitium hispidum Bieb.	7	14	3	5	5	11	7	11	9	11	2	8	4	7	8	11	10	12	6	11	8	10	5	9
Laserpitium latifolium L.	5	16	5	8	7	11	5	9	7	10	3	7	4	7	7	13	11	15	6	10	8	12	5	8
Laserpitium prutenicum L.	8	16	5	8	7	11	5	13	6	9	1	5	4	7	7	12	14	5	11	7	10	5	8	
Lathraea squamaria L.	9	15	4	6	6	11	5	9	4	8	6	10	5	8	6	13	12	16	3	11	7	11	1	4
Lathyrus aphaca L.	6	13	5	8	5	10	6	11	7	11	2	8	4	7	7	12	5	15	3	15	8	13	6	9
Lathyrus aureus (Stev.) Brandza	8	15	4	6	5	11	4	10	7	10	3	8	5	8	10	11	10	12	6	11	10	11	4	6
Lathyrus cicera L.	6	13	5	8	5	10	6	11	7	11	2	8	4	7	11	14	5	14	2	17	10	13	7	9
Lathyrus digitatus (Bieb.) Fiori	8	14	5	8	7	12	5	11	7	11	2	8	4	7	11	14	10	15	4	10	9	12	5	8
Lathyrus hirsutus L.	7	13	5	9	7	11	5	11	7	11	2	8	4	7	8	13	6	15	6	14	6	12	7	9
Lathyrus laevigatus (Waldst. et Kit.) Gren.	8	15	4	6	7	11	5	10	6	10	3	7	5	8	7	11	13	14	7	10	9	9	4	8
Lathyrus laxiflorus (Desf.) O. Kuntze	8	14	4	8	5	12	4	11	6	11	3	8	4	8	10	12	6	12	8	16	9	11	5	8
Lathyrus megalanthus Steud.	5	13	4	7	9	12	5	9	7	10	3	8	5	8	9	14	10	14	3	12	10	12	6	9
Lathyrus niger (L.) Bernh.	5	13	4	7	5	9	4	9	5	10	2	7	5	8	6	13	11	14	5	12	7	12	4	7
Lathyrus nissolia L.	7	15	5	10	7	12	5	10	5	11	2	7	4	9	8	14	10	15	2	12	8	12	6	9
Lathyrus pallescens (Bieb.) C. Koch	7	12	5	8	7	12	6	11	6	11	3	8	4	7	10	12	10	12	6	11	8	9	6	9
Lathyrus palustris L.	11	19	6	10	5	10	5	9	4	7	5	8	7	11	4	13	11	15	3	17	1	11	4	9
Lathyrus pannonicus (Jacq.) Garcke	7	15	5	9	7	12	7	11	7	11	2	8	4	7	8	12	10	12	3	15	6	11	6	9
Lathyrus pisiformis L.	7	13	5	9	7	10	4	8	5	9	3	7	6	9	5	11	10	14	6	17	6	9	5	9
Lathyrus pratensis L.	8	17	5	10	5	11	4	10	4	8	4	9	7	10	4	15	6	18	1	17	3	15	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Lathyrus rotundifolius</i> Willd.	8	14	4	6	5	11	4	10	7	10	3	8	5	8	10	12	10	13	7	11	9	11	4	7
<i>Lathyrus sphaericus</i> Retz.	5	11	5	8	7	11	5	11	7	11	2	8	3	7	9	14	3	15	1	17	10	13	7	9
<i>Lathyrus sylvestris</i> L.	8	13	4	7	5	11	3	9	5	9	3	8	4	8	5	13	11	15	2	12	6	12	5	9
<i>Lathyrus transsylvanicus</i> (Spreng.) Reichenb. fl.	8	15	4	6	5	11	4	10	7	10	3	8	5	8	8	11	11	13	8	10	9	9	4	8
<i>Lathyrus tuberosus</i> L.	5	13	5	8	7	11	5	9	6	9	3	7	4	7	6	13	8	13	3	15	6	11	7	9
<i>Lathyrus venetus</i> (Mill.) Wohlf.	7	13	4	6	3	7	5	9	7	10	3	9	5	8	8	12	12	13	7	11	9	12	2	6
<i>Lathyrus vernus</i> (L.) Bernh.	8	15	4	6	7	11	4	8	6	10	3	9	5	8	4	13	11	15	4	16	5	11	2	6
<i>Lavatera thuringiaca</i> L.	3	15	3	11	7	11	5	12	8	9	3	8	3	9	6	11	5	13	6	17	6	10	6	9
<i>Lavatera trimestris</i> L.	3	15	3	11	7	11	5	11			3	8	5	7	6	13			6	17	6	10	7	9
<i>Ledum palustre</i> L.	13	19	1	4	1	4	1	4	1	5	1	5	9	12	2	9	5	15	5	17	1	10	4	8
<i>Leersia oryzoides</i> (L.) Sw.	16	21	2	5	3	7	3	10	3	7	6	10	10	13	6	12	11	15	3	11	6	12	5	9
<i>Legousia hybrida</i> (L.) delarb.	5	13	3	6	7	12	7	12	7	11	3	7	4	7	8	14	9	15	3	10	10	13	6	9
<i>Lembotropis nigricans</i> (L.) Griseb.	5	13	3	7	5	9	3	10	5	11	1	7	4	7	7	11	11	14	7	10	7	10	5	9
<i>Lemna gibba</i> L.	19	23	2	4	5	11	7	13	5	9	5	11	12	14	7	13	9	16	1	16	7	15	6	9
<i>Lemna minor</i> L.	17	23	2	4	5	11	5	13	3	9	3	9	13	14	3	14	3	17	1	17	1	15	6	9
<i>Lemna trisulca</i> L.	19	23	1	3	5	11	5	13	1	9	4	9	12	14	3	16	1	15	1	17	1	15	6	9
<i>Lens ervoides</i> (Brign.) Grande	5	10	2	5	7	11	7	11	9	11	2	6	4	7	11	14	3	10	6	17	8	15	7	9
<i>Lens nigricans</i> (Bieb.) Webb et Berth.	6	10	2	5	7	11	7	11	9	11	2	6	3	7	11	14	6	10	6	13	9	12	6	9
<i>Lens orientalis</i> (Boiss.) Schmalh.	7	10	2	5	7	11	7	11	9	11	2	6	4	7	11	14	3	10	6	17	8	15	6	8
<i>Leontodon asperus</i> (Waldst. et Kit.) Boiss.	8	13	5	8	7	13	5	11	8	12	1	8	4	7	8	11	9	11	7	12	9	11	5	9
<i>Leontodon autumnalis</i> L.	8	15	6	9	5	9	3	11	4	9	3	9	6	11	3	11	10	18	1	16	4	11	6	9
<i>Leontodon danubialis</i> Jacq.	6	13	6	8	7	10	5	9	4	8	3	6	5	8	7	11	11	14	7	10	7	10	6	9

Leontodon hispidus L.	8	13	5	8	5	9	2	9	7	11	2	7	5	8	4	12	11	15	1	14	6	12	5	9
Leontopodium alpinum Cass.	5	15	2	5	6	11	3	9	9	12	1	7	3	8	3	6	15	18	3	7	7	8	7	9
Leonurus cardiaca L.	6	15	6	8	7	11	5	9	6	9	7	11	5	8	7	12	11	18	6	9	8	11	7	9
Leonurus quinquelobatus Gilib.	6	14	6	9	7	11	3	9	9	11	7	11	5	8	4	11	9	18	5	9	5	13	6	9
Leopoldia comosa (L.)Parl.	6	13	7	10	7	12	6	11	9	11	2	8	3	6	9	14	5	14	5	17	9	13	6	9
Leopoldia tenuiflora (Tausch) Heldr.	6	12	7	10	7	12	6	12	9	11	2	8	4	7	8	11	8	14	6	16	9	11	6	9
Lepidium borysthenticum Kleopow	3	9	8	11	11	13	14	18	8	11	1	4	7	12	9	12	5	12	8	17	6	9	8	9
Lepidium campestre (L.) R. Br.	5	13	5	9	5	9	5	11	5	9	3	9	4	7	6	12	1	15	1	14	6	13	7	9
Lepidium crassifolium Waldst. et Kit.	3	9	8	11	11	13	14	18	8	11	1	4	7	12	9	12	5	12	8	17	6	9	8	9
Lepidium densiflorum Schrad.	5	10	5	11	6	10	3	10	5	9	3	6	4	7	6	15	3	17	4	16	7	14	7	9
Lepidium graminifolium L.	4	10	7	11	8	11	7	11	7	11	3	7	4	7	10	14	5	15	4	10	10	13	8	9
Lepidium latifolium L.	3	16	8	11	3	14	5	15	5	9	5	9	3	7	6	14	5	14	7	17	7	13	7	9
Lepidium perfoliatum L.	5	16	7	11	5	13	5	15	5	9	3	9	3	7	7	14	5	13	6	17	4	12	7	9
Lepidium pinnatifidum Ledeb.	4	10	9	11	12	13	15	19	8	12	2	4	7	12	8	12	1	10	13	17	7	13	8	9
Lepidium pumilum Boiss. et Bal.	3	9	9	11	12	13	12	16	9	12	1	4	7	14	10	12	10	11	8	16	8	11	8	9
Lepidium ruderale L.	5	17	5	11	7	11	5	15	4	10	4	9	6	8	5	14	3	15	4	17	4	13	7	9
Lepidium syvaschicum Kleopow	3	8	9	11	11	14	17	19	7	11	1	4	5	9	10	12	10	10	10	11	8	9	7	9
Lepidium turczaninowii Lipsky	2	6	9	11	9	12	11	16	8	11	1	3	4	7	11	12	10	10	8	9	9	10	8	9
Lepidium virginicum L.	6	10	7	9	6	10	4	10	4	9	3	7	5	7	7	13	12	15	3	10	8	12	7	9
Lerchenfeldia flexuosa (L.)Schur	8	16	5	10	1	6	2	9	5	9	1	5	5	9	4	12	12	18	1	8	6	12	4	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA	
<i>Leucanthemella serotina</i> (L.) Tzvel.	10	17	4	9	5	7	5	8	4	8	5	9	8	12	10	12	10	12	8	11	8	10	7	9	
<i>Leucanthemum</i> <i>rotundifolium</i> (Waldst. et Kit.) DC.	8	15	4	7	5	8	3	10	5	10	4	7	5	9	5	6	15	17	5	7	7	8	5	9	
<i>Leucanthemum vulgare</i> Lam.	8	16	7	11	5	10	3	11	5	11	2	7	5	9	4	11	10	18	1	17	1	15	6	9	
<i>Leucojum aestivum</i> L.	11	17	3	9	5	11	5	9	4	8	5	9	8	11	9	13	11	16	1	14	9	12	6	9	
<i>Leucojum vernum</i> L.	10	17	3	7	5	11	5	9	3	7	5	10	7	12	7	12	2	14	5	9	8	10	3	9	
<i>Leucorchis albida</i> (L.) E. Mey.	8	15	4	7	5	8	3	8	3	7	4	8	6	10	3	6	14	18	1	6	7	11	7	9	
<i>Leymus arenarius</i> (L.) Hochst.	8	16	9	11	6	11	7	11	3	7	5	9	3	6	3	9	14	18	1	5	7	12	8	9	
<i>Leymus racemosus</i> (Lam.) Tzvel.	3	6	8	10	5	12	13	17	4	9	3	7	3	6	8	10	7	11	6	17	4	10	8	9	
<i>Leymus ramosus</i> (Trin.) Tzvel.	2	12	7	10	7	13	11	16	3	7	2	7	3	6	7	11	5	11	10	17	3	9	8	9	
<i>Leymus sabulosus</i> (Bieb.) Tzvel.	7	15	9	11	7	14	10	17	3	7	3	7	3	7	11	12	10	11	6	11	9	11	8	9	
<i>Libanotis intermedia</i> Rupr.	5	12	7	10	5	11	7	11	7	11	5	9	4	7	6	12	8	14	6	16	2	10	7	9	
<i>Libanotis montana</i> Crantz	6	12			5	10	4	9			2	7	5	8	7	11	9	15	5	17	2	11	7	9	
<i>Ligularia bucovinensis</i> Nakai	8	14	4	7	7	11	5	9	9	11	5	8	4	7	8	11	8	10	7	10	8	9	6	9	
<i>Ligularia sibirica</i> auct. non (L.) Cass.	14	19	2	5	5	8	2	7	8	10	2	6	8	12	5	9	12	14	7	17	1	7	7	9	
<i>Ligusticum mutellina</i> (L.) Crantz	9	15			4	8	3	10			1	7												7	9
<i>Ligustrum vulgare</i> L.	7	17	4	7	7	11	4	11	9	12	1	9	5	8	7	13	9	15	1	13	9	12	3	8	
<i>Lilium martagon</i> L.	8	15	4	7	6	11	4	9	5	11	3	9	5	8	6	12	11	15	3	11	4	11	2	7	
<i>Limodorum abortivum</i> (L.) Sw.	5	13	5	7	7	11	5	11	8	11	3	8	5	7	10	14	9	13	7	12	9	13	4	8	
<i>Limonium alutaceum</i> (Stev.) O. Kuntze	2	15	8	9	6	12	13	17	8	11	7	8	5	7	8	11	9	12	10	14	7	10	8	9	

Limonium caspium (Willd.)Gans.	6	14	8	8	9	8	12	9	17	8	11	7	8	5	7	8	11	10	15	7	10	9	12	8	9
Limonium ezurjukense Klokov	2	15	8	8	11	8	12	13	17	8	11	3	5	5	7	10	12	9	11	9	11	9	10	8	9
Limonium donetzicum Klokov	5	9	8	8	9	10	12	11	15	7	10	6	9	4	7	8	11	10	11	11	12	7	8	9	
Limonium hypanicum Klokov	2	18	8	8	11	9	13	7	17	7	12	2	7	5	8	9	11	9	11	9	11	8	11	8	9
Limonium membranaceum (Czern.)Klokov	5	11	8	8	11	8	12	7	14	8	11	3	8	5	7	9	12	11	13	8	9	8	9	8	9
Limonium meyeri (Boiss.)O.Kuntze	2	14	8	8	11	8	14	7	16	8	11	2	7	5	8	8	11	6	12	7	17	6	12	8	9
Limonium platyphyllum Lincz.	3	8	8	8	9	8	12	7	14	8	11	3	8	5	9	8	11	10	12	8	13	8	11	7	9
Limonium sareptanum (A.Beck.)Gans.	2	12	8	8	10	9	12	5	16	5	10	4	8	4	6	9	11	8	10	11	15	6	10	8	9
Limonium suffruticosum (L.)O.Kuntze	1	6	8	8	11	8	15	9	18	8	11	2	6	5	7	8	14	8	10	10	16	8	11	8	9
Limosella aquatica L.	11	22	9	11	5	11	6	12	5	9	3	8	13	15	2	14	11	15	1	15	1	13	6	9	9
Linaria biebersteinii Bess.	5	15	3	6	7	12	6	11	8	10	2	8	4	7	9	11	10	11	10	11	10	8	10	8	9
Linaria cretacea Fisch.ex Spreng.	5	12	2	5	8	13	9	12	11	13	1	6	3	7	9	10	8	11	10	10	14	7	8	8	9
Linaria dulcis Klokov	5	12	9	11	7	11	7	10	5	9	1	6	3	6	9	11	10	11	11	9	11	8	10	5	9
Linaria genitifolia (L.)Mill.	4	14	3	11	8	12	5	10	4	12	1	6	3	7	7	11	7	13	6	16	6	9	7	9	
Linaria macroura (Bieb.)Bieb.	5	11	4	7	7	12	6	11	5	9	2	8	4	7	9	11	10	11	11	9	12	8	10	7	9
Linaria maotica Klokov	5	12	3	6	7	12	6	11	8	10	2	7	3	7	7	10	5	14	9	14	6	9	7	9	
Linaria sypitensis C.Koch	5	11	3	6	6	7	12	6	11	9	12	2	7	3	7	11	12	10	11	8	10	9	10	7	9
Linaria vulgaris Mill.	5	14	7	11	5	12	4	14	9	12	2	7	4	7	3	11	10	10	17	3	16	4	12	6	9
Lindernia procumbens (Krock.) Borb.	11	19	9	11	6	9				6	8	5	10		7	17	6	15	4	17	5	15	8	9	
Linnaea borealis L.	8	16	2	5	1	6	3	7	8	10	1	5	5	8	3	8	13	18	8	12	1	10	2	6	
Linum austriacum L.	3	11	5	11	7	11	6	10	8	11	1	6	4	7	8	14	6	12	6	13	8	12	7	9	

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SIH	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Linum bassarabicum</i> (Savul. et Rayss)Klokov ex Juz.	5	11	5	8	7	11	6	10	9	12	3	6	5	7	8	12	10	12	9	10	9	11	6	9
<i>Linum bienne</i> auct. non Mill.	5	13	4	9	7	12	5	15	7	12	3	6	5	7	8	14	6	16	1	17	9	13	7	9
<i>Linum catharticum</i> L.	8	15	5	9	6	11	3	9	5	10	2	7	5	9	5	13	11	18	1	12	6	12	6	9
<i>Linum corymbulosum</i> Reichenb.	5	13	4	9	7	12	6	13	5	10	3	6	5	7	11	14	6	11	6	17	6	15	6	9
<i>Linum czermiaevii</i> Klokov	5	12	4	7	7	12	6	12	9	13	3	8	4	7	9	11	10	12	8	14	7	10	7	9
<i>Linum euxinum</i> Juz.	3	11	5	11	7	11	6	10	8	10	1	6	4	7	5	7	14	17	7	9	9	10	8	9
<i>Linum extraaxillare</i> Kit.	8	15	3	7	7	11	3	10	5	11	3	8	5	9					6	8	8	9	7	9
<i>Linum flavum</i> L.	5	11	5	9	7	11	5	12	9	13	3	6	5	7	6	12	10	13	7	13	6	10	6	9
<i>Linum hirsutum</i> L.	5	12	4	9	7	11	6	11	10	13	3	6	5	7	8	12	8	12	8	12	8	11	6	9
<i>Linum jaiicola</i> Juz.	7	11	4	8	7	12	5	11	9	11	2	8	5	7	9	11	11	13	7	9	9	10	7	9
<i>Linum lanuginosum</i> Juz.	6	12	4	9	7	12	6	12	8	13	2	8	5	7	10	11	10	12	8	12	8	11	7	9
<i>Linum marschallianum</i> Juz.	6	13	4	9	7	12	5	12	9	10	1	8	3	7	9	11	10	12	7	8	9	9	7	9
<i>Linum nervosum</i> Waldst. et Kit.	7	12	4	8	7	12	6	11	8	11	2	8	5	7	9	11	6	11	8	12	8	10	6	9
<i>Linum nodiflorum</i> L.	5	12	4	9	7	12	5	12	9	12	1	8	5	7	11	14	6	11	6	12	9	12	7	9
<i>Linum pallasianum</i> Schult.	5	12	4	7	7	12	6	12	9	13	2	6	4	7	10	11	10	11	7	10	10	10	7	9
<i>Linum perenne</i> L.	3	14	3	11	5	12	5	14	8	10	3	8	3	7	3	11	10	13	3	17	1	10	6	9
<i>Linum tauricum</i> Willd.	5	12	3	7	7	12	6	12	9	13	2	6	4	7	9	12	10	12	7	11	9	10	7	9
<i>Linum tenuifolium</i> L.	3	12	4	11	8	11	6	12	8	11	1	6	3	7	9	13	8	14	5	12	8	12	8	9
<i>Linum trigynum</i> L.	5	13	4	9	7	12	4	11	8	11	1	6	5	7	10	14	3	12	4	9	9	13	8	9
<i>Linum ucrainicum</i> Czern.	4	13	3	10	7	13	6	12	11	13	3	8	4	7	9	10	10	11	10	12	8	9	8	9
<i>Linum usitatissimum</i> L.	5	13	4	9	7	11	6	12	3	12	3	6	5	7	5	11	10	16	1	17	4	14	7	9
<i>Liparis loeselii</i> (L.) Rich.	13	19	2	6	9	12	3	7	6	10	1	5	8	11	6	12	12	14	4	9	5	11	7	9
<i>Listera cordata</i> (L.) R.Br.	11	19	1	6	1	6	1	6	1	7	3	8	5	11	3	12	1	18	1	9	4	11	2	7
<i>Listera ovata</i> (L.) R.Br.	9	16	3	7	5	11	5	8	5	9	3	9	5	9	2	12	3	18	5	11	4	11	2	8

Lithospermum officinale L.	5	16	7	11	7	11	3	9	9	12	4	9	4	7	4	13	8	16	2	17	5	12	5	9
Lloydia serotina (L.) Reichenb.	7	15	3	7	3	7	3	7			1	5	3	6	1	7	13	18	2	17	1	9	7	9
Lobularia maritima (L.) Desv.	4	11	7	11	6	10	5	14	6	9	2	6	3	7	7	14	1	11	3	9	11	13	7	9
Loiseleuria procumbens (L.) Desv.	9	14	6	9	1	6	3	7	1	4	1	5	3	6	3	7	14	18	1	12	1	10	8	9
Lolium loliaceum (Bory & Chaub.) Hand.-Mazz.	5	13	6	11	5	11	5	15	4	9	1	5	3	6	11	13	5	11	9	17	9	10	7	9
Lolium multiflorum Lam.	8	15	4	7	5	9	5	11	3	5	5	9	6	8	6	13	5	18	4	12	7	12	7	9
Lolium perenne L.	8	15	4	7	5	9	5	11	7	10	5	10	6	8	4	13	6	16	1	14	7	13	7	9
Lolium remotum Schrank	5	13	4	7	4	8	3	7	5	8	4	8	4	7	5	14	12	16	2	15	6	13	7	9
Lolium rigidum Gaud.	6	15	6	9	5	11	5	15	4	9	1	5	3	6	9	14	5	15	6	9	7	13	7	9
Lolium temulentum L.	7	14	4	7	6	11	5	11	5	9	5	9	6	8	4	14	5	18	2	12	3	15	7	9
Lonicera caprifolium L.	8	15	4	7	7	11	5	9	4	9	3	9	5	8	9	13	9	14	6	12	9	12	5	9
Lonicera nigra L.	8	15	2	5	5	8	4	9	4	11	3	8	5	10	5	12	12	18	3	8	8	11	1	6
Lonicera tatarica L.	7	15	4	7	5	11	5	10	4	9	3	9	5	8	7	13	5	12	3	8	5	9	4	9
Lonicera xylosteum L.	8	15	4	7	5	10	5	8	4	10	3	9	5	8	5	12	10	14	3	11	4	12	2	7
Lotus arvensis Pers.	8	15	5	9	7	8	5	10	4	7	3	8	4	7	9	11	12	14	5	12	6	10	7	9
Lotus corniculatus L.	8	17	3	11	5	12	4	15	3	12	3	8	3	9	4	15	6	18	1	11	7	13	5	9
Lotus tauricus Juz.	8	13	3	7	7	14	9	17	7	11	3	7	4	7	7	9	11	13	7	9	9	10	7	9
Lotus tenuis Waldst. et Kit. ex Willd.	8	16	7	11	8	14	9	17	3	9	1	6	7	10	7	13	6	15	1	13	7	13	7	9
Lotus uliginosus Schkuhr	10	18	9	11	4	7	4	8	4	9	3	7	7	10	7	10	11	14	8	12	7	12	6	9
Ludwigia palustris (L.) Ell.	13	19	1	4	5	8	4	9	3	6	6	9	10	13	7	12	13	15	3	13	9	15	6	9
Lunaria annua L.	9	15	2	6	6	10	6	11	7	11	5	9	7	10	11	13	10	16	9	12	10	12	6	9
Lunaria rediviva L.	9	16	2	6	6	10	6	11	7	11	6	11	7	10	7	12	11	14	5	11	6	11	1	5
Lupinus luteus L.	9	13	4	10	6	11	2	7	3	7			3	7	9	11	10	15	4	13	10	13	7	9
Lupinus polyphyllus Lindl.	8	15	6	11	3	7	2	7	2	6	3	9	3	7	5	11			5	11			7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	Knl	KnA	CrI	CrA	LcI	LcA
<i>Luzula alpino-pilosa</i> (Chaix) Breistroffen	10	16	4	9	4	7	2	7	3	7	2	6	3	7	4	7	14	18	14		8	12	6	9
<i>Luzula campestris</i> (L.) DC.	8	17	4	8	3	7	2	9	3	7	1	5	4	7	6	14	12	18	1	11	8	13	6	9
<i>Luzula forsteri</i> (Smith) DC.	8	13	4	6	7	11	4	10	8	11	3	7	5	8	8	13	8	15	4	10	9	12	2	6
<i>Luzula luzulina</i> (Vill.) Dalla Torre et Sarnth.	8	15	4	7	3	7	2	6	3	7	3	7	5	8	4	9	14	18	5	8	8	10	4	9
<i>Luzula luzuloïdes</i> (Lam.) Dandy et Wilmott	8	14	3	7	3	7	2	10	3	7	3	7	5	8	8	12	12	14	3	11	8	11	2	6
<i>Luzula multiflora</i> (Retz.) Lej.	9	15	4	7	3	8	3	9	4	9	3	7	5	8	2	11	12	18	5	14	5	10	5	9
<i>Luzula pallescens</i> Sw.	9	15	4	7	3	7	5	10	4	9	3	7	4	8	5	10	12	4	5	15	5	10	6	9
<i>Luzula pilosa</i> (L.) Willd.	8	17	3	8	5	8	3	9	4	8	3	7	5	8	3	11	12	17	2	15	4	11	2	6
<i>Luzula spicata</i> (L.) DC.	8	13	4	8	3	7	3	8	3	6	1	5	4	7	3	6	14	18	1	12	5	11	7	9
<i>Luzula sudetica</i> (Wild.) Schult.	8	17	4	8	5	8	2	8	3	6	1	5	4	8	4	7	14	18	4	8	8	11	8	9
<i>Luzula sylvatica</i> (Huds.) Gaudin	8	15	3	7	2	7	2	9	3	6	3	8	5	8	5	12	11	18	1	11	9	12	2	6
<i>Lycchnis chalconica</i> L.	8	14	4	7	7	9	5	9	2	7	4	9	5	8	6	9	10	13	5	10	5	9	5	9
<i>Lycium barbarum</i> L.	5	13	4	9	7	12	5	11	3	6	4	9	3	8	7	11	8	16	2	17	8	12	6	9
<i>Lycopodiella inundata</i> (L.) Holub	12	19	3	7	3	7	1	5	1	5	1	6	3	11	6	11	11	20	2	9	7	11	4	9
<i>Lycopodium annotinum</i> L.	8	16	2	6	1	7	1	6	2	5	1	7	4	11	4	11	11	18	4	17	1	12	3	7
<i>Lycopodium clavatum</i> L.	8	16	3	6	1	7	1	7	1	5	1	5	5	8	3	11	11	18	4	17	1	11	5	8
<i>Lycopsis arvensis</i> L.	7	14	3	9	7	11	4	10	3	7	4	8	4	8	4	12	12	16	1	11	6	12	7	9
<i>Lycopsis orientalis</i> L.	6	14	4	10	8	12	9	14	3	10	4	8	4	7	7	13	3	11	9	17	6	10	7	9
<i>Lycopus europaeus</i> L.	14	21	3	6	5	9	3	11	3	7	5	10	9	12	5	13	5	16	2	15	1	13	4	9
<i>Lycopus exaltatus</i> L. fil.	14	21	3	6	5	11	3	9	3	7	5	9	9	12	6	12	6	13	7	17	5	11	6	9
<i>Lysimachia nemorum</i> L.	11	18	2	4	4	10	2	6	1	6	5	9	7	9	6	10	13	16	1	10	8	11	2	6
<i>Lysimachia nummularia</i> L.	9	19	9	11	7	11	3	13	2	4	5	9	6	9	4	13	10	15	3	13	5	11	4	9



<i>Lysimachia punctata</i> L.	10	17	2	4	5	10	4	9	3	8	9	11	7	10	8	13	11	18	5	11	8	12	6	9
<i>Lysimachia verticillaris</i> Spreng.	10	17	4	6	7	11	5	9	6	9	7	9	5	8	9	12	6	12	11	16	7	11	6	9
<i>Lysimachia vulgaris</i> L.	11	19	2	6	6	10	3	12	1	7	3	9	7	11	5	13	11	15	4	17	3	12	6	9
<i>Lythrum hyssopifolia</i> L.	10	17	7	11	3	7	2	13	3	7	1	4	5	7	6	15	5	15	2	17	6	15	7	9
<i>Lythrum intermedium</i> Ledeb.	10	20	9	11	5	11	7	13	4	7	1	5	7	12	6	11	6	14	6	17	5	13	7	9
<i>Lythrum salicaria</i> L.	10	21	4	9	5	13	4	14	4	6	3	9	9	12	4	13	5	16	2	17	5	13	6	9
<i>Lythrum thymifolia</i> L.	10	17	7	11	7	12	7	13	4	7	3	9	7	10	6	14	10	15	6	15	6	13	6	9
<i>Lythrum virgatum</i> L.	10	19	6	9	5	11	4	12	2	7	5	9	9	12	6	11	6	13	8	17	6	10	6	9
<i>Majanthemum bifolium</i> (L.) F.W.Schmidt	8	16	4	9	3	8	3	9	5	9	1	7	4	7	4	11	12	18	4	17	1	11	3	6
<i>Malabaila graveolens</i> (Spreng.) Hoffm.	6	15	3	7	5	10	6	11	7	10	3	9	4	7	7	11	9	12	9	17	6	9	7	9
<i>Malaxis monophyllos</i> (L.) Sw.	10	17	3	6	3	9	3	8	3	10	1	7	6	11	4	12	5	15	6	10		12	5	9
<i>Malus praecox</i> (Pall.) Borkh.	7	15	5	9	5	12	5	11	5	10	3	9	4	8	7	11	8	13	8	14	6	9	5	9
<i>Malus sylvestris</i> Mill.	8	16	5	8	7	11	5	9	5	10	3	9	4	8	6	9	9	18	8	11	6	11	5	9
<i>Malva ambigua</i> Guss.	8	16	2	7	5	10	5	9			6	10	5	10	11	14	5	10	6	11	10	13	7	9
<i>Malva erecta</i> J.et C. Presl.	5	13	2	7	5	10	5	9	8	11	3	10	5	8	11	14	6	12	7	15	9	13	6	9
<i>Malva excisa</i> Reichenb.	6	18	3	8	5	12	3	12	4	12	5	11	5	9	7	14	10	15	6	11	10	13	6	9
<i>Malva mauritana</i> L.	8	16	2	7	5	10	5	9	2	9	6	10	5	10	7	14	9	15	6	16	6	13	6	9
<i>Malva moschata</i> L.	5	16	2	9	7	10							5	10	6	11	8	14	2	10	10	12	6	9
<i>Malva neglecta</i> Wallr.	3	15	3	10	5	10	7	11	4	10	6	10	3	9	6	14	9	16	6	12	5	13	7	9
<i>Malva pusilla</i> Smith	3	16	3	9	5	10	7	10	4	10	3	9	3	10	4	13	5	14	5	17	5	10	7	9
<i>Malva sylvestris</i> L.	8	16	2	7	5	10	5	9			6	10	5	10	6	13	1	17	3	15	5	14	6	9
<i>Malva verticillata</i> L. s.l.	8	16	2	7	5	10	5	9	5	10	6	10	5	10	6	14	6	14	6	14	7	13	7	9
<i>Malvella sherardiana</i> (L.) Jaub.et Spach	2	14	4	11	5	13	4	11	5	13	4	11	4	13	11	14	6	11	6	12	10	13	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	RcI	RcA	SII	SIA	CaI	CaA	NH	NrA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Marrubium peregrinum</i> L.	7	12	5	10	6	12	7	14	4	9	3	6	3	6	10	12	10	13	6	12	9	11	8	9
<i>Marrubium praecox</i> Janka	5	10	3	6	7	11	8	11	5	10	3	8	4	7	9	12	7	12	7	12	8	11	8	9
<i>Marrubium vulgare</i> L.	5	13	3	6	7	11	6	12	5	10	5	9	4	7	7	13	3	15	2	17	7	14	8	9
<i>Marsilea quadrifolia</i> L.	16	21	6	11	5	12	5	11	5	10	5	10	9	13	9	15	5	15	6	17	8	14	7	9
<i>Matricaria perforata</i> Merat	8	15	8	11	6	9	5	11	4	8	4	9	7	10	4	12	9	16	2	14	5	11	7	9
<i>Matteuccia struthiopteris</i> (L.) Tod.	10	17	5	10	5	1	5	9	3	6	5	10	9	12	4	13	12	20	5	16	4	12	4	9
<i>Matthiola fragrans</i> Bunge	3	6	1	7	11	13	9	12	11	13	1	5	3	6	7	10	10	13	10	14	5	8	8	9
<i>Matthiola odoratissima</i> (Bieb.) R. Br.	1	6	1	4	11	13	10	14	10	13	1	3	3	5	10	12	8	12	7	10	9	11	8	9
<i>Medicago agrestis</i> Ten.	5	12	3	9	7	12	6	11	9	11	2	8	3	7	10	14	3	12	10	17	9	11	8	9
<i>Medicago arabica</i> (L.) Huds.	7	16	7	11	8	11	5	15	4	10	3	7	3	8	6	15	5	14	4	13	9	15	8	9
<i>Medicago denticulata</i> Willd.	5	13	6	9	7	12	7	12	9	11	1	7	3	7	9	13	3	13	6	17	9	13	7	9
<i>Medicago falcata</i> L.	4	14	3	8	7	12	5	13	8	11	2	8	4	7	6	12	6	14	1	17	4	10	7	9
<i>Medicago glandulosa</i> (Mert. et Koch) David.	5	12	3	7	7	12	6	11	7	11	2	8	4	7	5	14	1	18	6	12	9	12	7	9
<i>Medicago lupulina</i> L.	5	16	8	11	7	11	3	13	5	11	3	9	3	7	6	14	3	15	1	17	3	15	6	9
<i>Medicago marina</i> L.	5	15	8	10	8	11	4	14	3	6	1	5	3	5	11	14	6	11	6	11	10	13	8	9
<i>Medicago minima</i> (L.) Bartalini	3	12	3	9	7	11	6	12	3	9	1	5	4	7	7	15	6	15	2	17	7	14	8	9
<i>Medicago orbicularis</i> (L.) Bartalini	5	13	6	9	7	12	6	12	5	10	1	7	4	7	10	15	5	14	5	17	9	14	7	9
<i>Medicago procumbens</i> Bess.	5	13	3	8	9	12	5	11	8	11	1	6	4	7	6	13	5	14	6	17	1	11	7	9
<i>Medicago rigidula</i> (L.) All.	5	10	3	9	7	12	6	11	9	11	2	8	3	7	10	14	3	12	10	17	9	11	8	9
<i>Medicago romanica</i> Prod.	4	12	3	8	7	12	6	11	8	11	2	8	4	7	6	12	6	14	1	17	4	10	7	9
<i>Medicago rupestris</i> Bieb.	3	8	1	4	9	13	10	13	9	13	2	5	3	7	9	10	11	12	8	9	9	10	8	9
<i>Medicago sativa</i> L.	5	13	3	8	7	11	6	10	8	11	3	7	4	7	6	12	6	13	1	17	3	12	7	9
<i>Medicago saxatilis</i> Bieb.	3	8	1	4	11	13	10	13	9	13	2	5	3	6	9	10	11	12	8	9	9	10	8	9

Melampyrum argyrocomum Fisch. ex K.-Pol.	5	12	4	8	7	13	6	12	9	11	2	8	4	7	9	10	6	8	6	14	6	10	7	9
Melampyrum arvense L.	5	16	5	8	7	11	4	9	7	11	2	7	4	8	6	11	9	15	3	14	6	12	6	9
Melampyrum cristatum L.	7	13	4	7	7	11	5	9	6	9	2	7	5	8	4	13	10	14	3	14	5	11	5	9
Melampyrum herbichii Woloszew.	8	17	3	6	4	8	2	8	3	6	1	7	5	8	5	6	14	16	7	8	8	9	3	9
Melampyrum nemorosum L.	8	16	4	7	5	9	2	9	6	9	3	7	5	8	4	11	11	14	5	12	6	10	4	8
Melampyrum polonicum (Beauverd) Soo	8	16	4	7	5	9	2	9	6	9	3	7	5	8	7	9	12	14	7	8	8	9	4	8
Melampyrum pratense L.	8	16	4	7	1	6	1	8	3	7	1	7	4	8	3	12	11	18	1	15	5	11	5	9
Melampyrum sylvaticum L.	8	15	3	6	1	6	2	6	3	6	1	5	5	8	3	11	12	18	2	11	5	10	3	7
Melandrium album (Mill.) Garcke	5	13	4	9	5	10	5	11	3	10	5	9	5	7	4	13	8	20	1	14	5	13	6	9
Melandrium boissieri Schischk.	5	13	7	9	5	10	5	11	5	10	5	9	5	7	10	14	8	14	5	14	9	12	6	9
Melandrium dioicum (L.) Coss. et Germ.	9	17	3	7	6	10	4	10	7	10	5	11	3	8	5	12	10	15	4	14	6	12	5	9
Melandrium eriocalycinum Boiss.	5	12	7	9	7	11	5	11	7	10	4	7	5	7	10	12	10	12	9	11	9	11	6	9
Melica altissima L.	8	14	4	8	7	11	4	10	6	9	5	10	5	8	4	11	9	14	6	17	3	11	5	9
Melica chrysolepis Klokov	4	10	5	9	6	11	3	11	3	10	2	7	3	7	8	10	10	12	10	11	9	11	7	9
Melica ciliata L.	5	10	2	7	7	11	9	12	9	11	2	5	4	7	8	15	6	14	4	11	9	11	7	9
Melica monticola Prokud.	6	11	3	6	7	12	6	12	8	11	1	8	3	6	7	8	12	13	7	8	9	9	5	9
Melica nutans L.	8	15	3	6	5	11	4	9	4	6	2	7	4	7	4	12	11	16	2	17	4	11	2	6
Melica picta C. Koch	8	13	4	7	5	9	5	10	6	10	4	9	4	7	7	11	10	13	6	12	7	10	3	6
Melica taurica C. Koch	5	12	3	6	7	12	4	11	6	11	1	8	3	7	8	12	10	14	6	12	8	11	5	9
Melica transilvanica Schur	5	10	4	8	5	9	5	10	8	11	1	5	3	7	7	12	10	13	6	16	5	11	5	9
Melica uniflora Retz.	8	15	4	7	5	10	4	9	5	9	3	9	4	7	6	13	11	16	1	12	9	12	2	5
Meilotos albus Medik.	5	15	3	9	5	12	5	14	6	12	2	7	4	8	4	12	1	18	1	17	4	11	7	9
Meilotos altissimus Thuill.	8	16	5	9	7	11	8	12	5	9	3	9	6	9	7	12	10	16	5	11	6	12	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	RcI	RcA	SII	SIA	CaI	CaA	NtI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Melilotus dentatus</i> (Waldst. et Kit.) Pers.	10	16	9	11	9	14	12	7	2	7	2	8	6	10	7	11	6	15	4	17	4	10	7	9
<i>Melilotus neapolitanus</i> Ten.	2	12	3	7	8	12	7	12	7	11	1	6	4	7	10	14	8	13	7	12	9	13	6	9
<i>Melilotus officinalis</i> (L.) Pall.	3	15	3	9	7	11	4	15	9	11	3	7	3	7	3	13	7	16	2	17	5	12	7	9
<i>Melittis carpatica</i> Klokov	8	13	4	6	7	10	5	9	5	9	1	6	5	9	6	9	14	16	6	10	8	9	3	6
<i>Melittis sarmatica</i> Klokov	9	15	4	6	7	10	5	9	5	9	2	7	5	9	9	13	11	15	2	12	9	12	3	7
<i>Meniocus linifolius</i> (Steph.) D.C.	3	9	6	11	7	10	3	7	6	10	1	4	3	7	7	14	5	11	8	17	7	12	7	9
<i>Mentha aquatica</i> L.	11	21	6	9	5	11	7	11	4	8	3	7	9	13	7	13	9	18	1	14	7	13	6	9
<i>Mentha arvensis</i> L.	9	18	6	9	5	12	3	12	4	10	3	9	7	12	3	15	8	16	1	17	1	12	5	9
<i>Mentha longifolia</i> (L.) Huds.	10	18	6	9	7	11	5	10	4	8	6	10	8	12	6	13	3	13	5	11			6	9
<i>Mentha pulegium</i> L.	10	16	7	10	4	9	4	8	4	8	3	9	7	11	7	13	9	14	5	11	8	12	7	9
<i>Menyanthes trifoliata</i> L.	14	21	2	4	5	9	3	8	2	7	1	5	12	15	2	13	11	18	1	17	1	11	6	9
<i>Mercurialis annua</i> L.	8	19	5	9	7	11	5	9	5	9	5	10	5	8	7	14	9	15	3	14	8	14	6	9
<i>Mercurialis ovata</i> Sternb. et Hoppe	7	13	6	8	8	11	5	10	8	11	3	7	4	7	8	10	11	13	7	9	8	10	6	8
<i>Mercurialis perennis</i> L.	8	17	3	7	5	11	4	10	5	7	5	9	6	10	5	11	3	11	2	11	7	12	2	6
<i>Mespilus germanica</i> L.	8	13	4	7	5	10	5	9	8	11	3	8	4	8	3	12	3	15	4	17	10	14	3	8
<i>Milium effusum</i> L.	10	17	2	4	5	9	4	8	4	8	7	10	5	9	3	12	11	17	2	13	5	11	1	6
<i>Milium vernale</i> Bieb.	5	14	6	9	5	13	5	15	6	10	1	9	3	7	10	14	3	12	7	17	7	13	6	9
<i>Minuartia adenotricha</i> Schischk.	4	12	4	9	6	12	5	12	2	11	1	8	5	8	8	11	10	13	8	10	9	10	8	9
<i>Minuartia aucta</i> Klokov	5	11	3	8	5	9	7	11	10	13	2	5	4	7	8	9	12	13	8	9	8	9	8	9
<i>Minuartia bilykiana</i> Klokov	5	12	5	8	6	13	12	17	8	11	1	5	5	7	10	12	10	11	8	10	9	10	8	9
<i>Minuartia eglanulosa</i> (Fenzl) Klokov	5	11	3	8	8	12	6	10	10	13	2	5	4	7	8	9	12	13	7	7	8	9	8	9
<i>Minuartia euxina</i> Klokov	5	11	3	8	7	11	5	10	10	13	2	5	4	7	10	11	10	12	8	11	9	10	8	9

Minuartia glomerata (Bieb.) Degen	6	11	5	8	8	10	5	10	9	12	2	5	4	7	8	11	9	12	8	12	8	11	8	9
Minuartia hirsuta (Bieb.) Hand.-Mazz.	6	12	6	9	8	11	5	8	4	7	1	5	5	7	8	11	10	13	8	10	9	10	8	9
Minuartia hypanica Klokov	6	12	5	8	7	11	5	8	5	10	1	5	6	8	8	15	3	15	4	17	8	13	8	9
Minuartia leiosperma Klokov	5	11	3	8	7	11	5	11	9	12	1	6	4	7	8	11	10	13	9	13	7	10	8	9
Minuartia montana L.	5	12	3	8	8	12	6	10	10	13	2	5	4	7	9	12	3	1	10	17	10	13	8	9
Minuartia oxypetala (Woloszcz.) Kulez.	6	12	5	8	8	12	3	8	9	13	1	5	5	7	3	5	16	18	6	8	7	8		
Minuartia piskunovii Klokov	5	11	7	9	3	7	4	7	3	8	1	4	4	6	8	10	10	16	4	12	8	10	8	9
Minuartia pseudohybrida Klokov	6	12	5	8	7	11	5	9	7	11	1	5	5	7	8	15	3	15	4	17	8	13	8	9
Minuartia taurica (Stev.) Graebn.	7	11	6	9	7	12	7	11	9	13	2	7	5	7	8	11	10	13	8	10	9	10	8	9
Minuartia thyraica Klokov	4	12	3	8	7	11	5	10	10	13	2	5	4	7	8	9	11	13	9	10	8	9	8	9
Minuartia zarecznyi (Zapal.) Klokov	7	12	5	7	7	10			10	13	1	6	6	8	6	8	15	18	6	7	8	9	8	9
Moehringia hypanica Grynij et Klokov	9	13	3	5	4	7	1	6	1	4	6	9	4	7	9	10	10	11	11	11	8	9	5	7
Moehringia lateriflora (L.) Fenzl.	11	15	7	9	4	7	2	10	4	7	3	6	6	8	4	14	9	14	6	17	1	11	5	8
Moehringia muscosa L.	8	16	2	7	7	10	8	12	10	12	5	9	3	7	9	11	12	18	5	10	9	11	3	7
Moehringia trinervia (L.) Clairv.	10	17	2	7	4	9	4	9	4	8	5	9	5	10	4	14	7	18	1	14	5	12	2	6
Molinia caerulea (L.) Moench	10	18	3	8	1	11	2	15	2	10	1	5	7	10	3	14	11	18	1	13	5	12	4	9
Molinia euxina Pobed.	10	18	9	11	9	14	14	17	2	6	1	5	4	6	10	11	10	10	7	8	9	10	8	9
Mollugo cerviana (L.) Ser.	12	16	6	9	6	12	7	16	3	8	1	4	4	8	7	15	1	20	6	17	7	15	8	9
Moneses uniflora (L.) A. Gray	9	16	3	6	3	7	3	6	4	9	2	6	5	8	3	11	12	16	3	15	1	10	1	5
Morus alba L.	7	14	6	9	7	11	5	13	6	11	4	8	5	10	9	13	11	13	4	9	9	12	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	ReA	SII	SIA	CaI	CaA	NtI	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Morus nigra</i> L.	7	15	6	9	7	11	5	13	6	11	4	8	5	10	9	13	11	13	6	9	7	11	6	9
<i>Muscari botryoides</i> (L.) Mill.	7	15	3	9	5	11	3	10	5	9	3	8	5	8	8	15	10	15	6	11	9	12	6	9
<i>Muscari neglectum</i> Guss.	5	13	3	9	7	11	5	12	5	9	1	5	4	8	7	13	6	15	3	13	6	12	6	9
<i>Myagrum perfoliatum</i> L.	6	10	7	11	10	13	7	12	8	11	3	5	4	8	10	14	1	14	3	17	9	13	7	9
<i>Mycelis muralis</i> (L.) Dumort.	8	15	4	7	5	9	3	9	7	11	4	9	5	9	6	13	3	13	5	12	6	13	2	6
<i>Myosotis alpestris</i> F. W. Schmidt	8	15	2	6	5	10	3	7	3	8	3	8	3	7	2	6	14	18	4	7	7	10	7	9
<i>Myosotis arvensis</i> (L.) Hill	7	14	3	9	5	11	5	11	4	9	3	9	4	8	3	13	3	18	1	16	5	11	5	9
<i>Myosotis caespitosa</i> K.F. Schultz	10	19	3	9	3	10	6	9	4	8	4	9	9	11	4	14	5	18	2	14	1	15	6	9
<i>Myosotis discolor</i> Pers.	5	13			5	9	4	9			1	6	4	8	6	14	9	18	1	10	8	13	7	9
<i>Myosotis lithospermifolia</i> (Willd.) Hornem.	9	15	3	7	6	11	5	11	9	11	5	9	5	8	5	9	12	14	6	13	9	10	7	9
<i>Myosotis micrantha</i> Pall. ex Lehm.	5	14	3	10	4	7	5	10	4	8	2	6	3	8	5	13	8	14	3	14	6	11	6	9
<i>Myosotis nemorosa</i> Bess.	13	18	3	6	5	10	3	9	4	7	5	10	9	12	3	10	9	10	6	17	3	9	4	6
<i>Myosotis palustris</i> (L.) L.	13	20	3	9	5	9	3	13	4	7	3	9	9	13	2	12	10	18	1	16	2	12	4	9
<i>Myosotis sparsiflora</i> (Mikan) Turcz.	5	14	4	8	4	8	3	9	4	8	3	8	4	8	4	12	9	14	6	12	5	11	5	9
<i>Myosotis stenophylla</i> Knaf	5	12	2	6	7	11	7	12	9	11	2	7	3	7	3	6	14	18	6	9	8	9	7	9
<i>Myosotis strigulosa</i> Reichenb.	11	16	3	6	7	10	3	9	4	7	5	10	9	12	7	10	11	16	1	14	6	11	4	6
<i>Myosotis sylvatica</i> Ehrh. ex Hoffm.	9	15	4	7	5	10	5	9	4	6	5	10	4	8	3	10	8	15	3	17	2	11	4	8
<i>Myosoton aquaticum</i> (L.) Moench	11	18	2	6	7	10	6	9	4	7	7	10	6	11	5	14	9	16	3	14	7	12	4	9
<i>Myosurus minimus</i> L.	11	17	7	11	3	9	7	16	6	9	3	8	7	10	5	15	9	15	3	16	5	12	7	9
<i>Myricaria alopecuroides</i> Schrenk	13	17	9	11	7	11	5	19	8	10	1	6	3	5	9	13	7	15	3	9	6	13	7	9

Myricaria germanica (L.) Desv.	10	17	9	11	8	11	3	8	9	9	1	6	3	5	4	12	12	16	5	17	6	10	7	9
Myriophyllum alternifolium DC.	19	23	1	4	5	9	2	6	1	4	1	8	13	15	3	10	14	20	1	7	7	13	4	7
Myriophyllum spicatum L.	19	23	1	4	9	11	7	10	4	7	3	9	13	15	2	13	8	17	1	17	1	13	4	7
Myriophyllum verticillatum L.	19	23	1	4	6	11	5	11	5	6	5	10	13	15	3	13	8	16	3	17	1	12	5	7
Najas marina L.	21	23	1	3	9	12	9	15	4	6	4	9	13	14	4	14	3	13	5	11			4	7
Narcissus angustifolius Curt.	8	15	5	9	6	9	4	7	6	10	5	9	6	9	5	10	12	17	5	10	8	10	7	9
Narcissus poeticus L.	9	15	5	9	5	10	4	9	7	10	3	9	6	9	7	13	12	17	5	9	8	11	7	9
Nardus stricta L.	8	17	7	9	1	7	1	5	1	6	1	5	4	7	3	10	10	18	1	13	6	12	7	9
Nasturtium officinale R. Br.	17	21	1	4	6	9	2	8	7	11	5	10	10	15	7	15	9	23	1	12	8	15		9
Naumburgia thyrsiflora (L.) Reichenb.	14	18	2	4	2	9	3	9	1	6	1	7	10	12	3	10	11	18	3	17	1	11	5	9
Neottia nidus-avis (L.) Rich.	8	15	4	6	6	11	4	9	5	9	3	9	5	9	4	12	11	16	2	12	6	12	1	5
Neottianthe cucullata (L.) Schlechter	8	16	3	6	3	8	3	7	4	8	3	9	5	8	6	10	10	15	6	10	5	11	4	6
Nepeta cataria L.	7	15	6	9	5	9	4	9	4	10	5	9	4	8	6	13	11	15	3	17	6	12	6	9
Nepeta pannonica L.	5	13	6	9	7	11	5	9	3	9	5	9	4	8	6	12	8	13	7	15	5	11	6	9
Nepeta parviflora Bieb.	7	12	4	9	6	11	7	11	7	10	3	8	4	8	9	11	10	12	9	13	8	9	7	9
Neslia paniculata (L.) Desv.	7	13	5	9	7	10	6	10	5	9	3	9	5	8	7	12	11	14	4	17	6	9	6	9
Nigella arvensis L.	5	13	4	9	7	12	6	10	7	10	3	8	5	7	8	14	4	14	6	17	8	13	8	9
Nigella damascena L.	5	13	4	9	4	12	6	11	5	10	1	5	5	7	11	14	6	12	8	16	9	13	8	9
Nigella segetalis Bieb.	5	12	2	5	8	11	6	10	7	11	1	5	5	7	10	11	8	10	8	15	8	10	8	9
Nigritella nigra (L.) Reichenb.	8	15	3	6	4	8	3	8	7	10	2	6	5	8	6	11	13	16	4	7	7	9	7	9
Nonea pulla (L.) DC.	4	13	4	9	7	12	6	12	6	11	3	9	4	7	5	11	8	14	6	15	5	10	7	9
Nonea rossica Stev.	5	13	4	9	7	11	6	11	7	10	2	7	5	7	5	12	5	15	7	17	4	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Nonca taurica</i> (Ledeb.) Ledeb.	4	13	3	7	7	12	7	12	7	11	3	7	4	7	10	12	10	12	6	9	10	10	7	9
<i>Notholaena marantae</i> (L.) Desv.	2	7	2	7	2	11	4	7	2	5	2	7	3	6	9	14	5	13	3	12	9	14	8	9
<i>Nuphar lutea</i> (L.) Smith	18	23	2	7	5	9	5	10	3	8	3	8	12	15	5	14	10	15	4	16	5	12	5	9
<i>Nymphaea alba</i> L.	19	23	1	7	5	11	5	10	3	8	4	9	12	15	5	17	11	16	1	12	7	12	6	9
<i>Nymphaea candida</i> J. et C. Presl	19	23	1	7	7	11	5	11	3	8	4	9	12	15	5	9	12	14	5	15	4	10	6	9
<i>Nymphoides peltata</i> (S.G.Gmel.) O.Kuntze	19	23	1	4	7	11	7	11	9	9	7	11	12	15	5	13	12	15	3	17	4	12	7	9
<i>Odontholophus trinervius</i> (Steph.) Dobroc.	5	12	7	11	7	12	9	14	8	11	3	8	5	10					10	12	8	9		
<i>Odontites glutinosa</i> (Bieb.) Benth.	5	14	3	6	7	12	7	12	9	11	3	7	4	8	9	12	5	12	7	13	9	11	7	9
<i>Odontites vulgaris</i> Moench	4	17	7	10	5	9	3	13	5	11	5	9	4	8	5	13	3	18	1	17	2	13	6	9
<i>Oenanthe aquatica</i> (L.) Poir.	16	21	7	11	5	10	3	11	3	7	5	9	9	14	4	11	8	15	3	15	5	12	5	8
<i>Oenanthe silaifolia</i> Bieb.	10	18	7	11	7	11	6	11	4	8	5	9	9	13	7	14	5	15	1	17	8	13	5	9
<i>Oenothera biennis</i> L.	5	16	8	11	5	9	2	9	3	7	3	7	3	7	7	12	3	13	3	14	5	14	7	9
<i>Oenothera parviflora</i> L.	6	13	8	11	5	9	2	9	3	7	2	7	3	7					6	12	5	11	7	9
<i>Ofaiston monandrum</i> (Pall.) Moq.	11	17	8	10	10	15	12	18	4	6	2	5	8	11	7	10	5	10	11	16	6	9	8	9
<i>Omphalodes scorpioides</i> (Haenke) Schrank	10	18	7	10	5	11	5	10	4	7	7	11	8	11	5	11	10	13	6	11	7	10	2	5
<i>Onobrychis arenaria</i> (Kit.) DC.	5	13	3	7	7	12	6	11	4	12	1	7	3	6	7	10	6	14	7	17	1	10	7	9
<i>Onobrychis gracilis</i> Bess.	6	13	3	7	7	12	5	12	9	12	3	7	4	6	8	11	10	13	8	11	8	10	7	9
<i>Onobrychis jaiiae</i> Czernova	6	13	4	7	7	12	5	12	10	12	3	6	4	6	7	8	12	13	7	8	7	9	8	9
<i>Onobrychis miniata</i> Stev.	6	12	3	6	7	12	6	12	10	13	2	8	4	7	10	11	9	11	7	11	9	10	7	9
<i>Onobrychis pallasii</i> (Willd.) Bieb.	4	11	3	6	10	12	10	13	12	13	1	7	3	6	10	12	9	10	8	9	9	10	7	9
<i>Onobrychis tanaitica</i> Spreng.	5	11	4	7	7	12	6	12	10	13	3	8	3	6					8	17	6	9	8	9



Onobrychis vassilczenkoi Grossh.	4	9	3	6	10	12	10	13	11	13	1	7	3	6	9	10	10	11	10	12	7	9	8	9
Onobrychis vicifolia Scop.	7	13	4	7	6	10	6	10	7	9	5	7	5	8	7	11	10	16	6	9	6	11	8	9
Ononis arvensis L.	8	16	4	8	7	10	5	13	7	10	3	8	4	9	6	12	9	14	4	17	6	11	6	9
Ononis procurrens Wallr.	5	15	5	10	5	12	5	15	8	10	1	7	3	7	6	12	11	16	2	10	9	13	7	9
Ononis pusilla L.	6	13	3	7	7	12	5	12	9	13	1	8	4	7	10	14	5	14	6	14	9	13	6	9
Ononis spinosa L.	5	15	5	10	7	10	5	12	5	9	1	6	3	7	8	12	11	15	3	9	6	12	7	9
Onopordum acanthium L.	5	13	7	9	7	11	4	9	5	9	6	10	5	9	5	13	5	15	3	11	7	13	7	9
Onopordum tauricum Willd.	5	13	6	8	7	11	5	10	6	10	5	10	4	8	11	12	9	11	9	12	10	11	7	9
Onosma graniticola Klokov	3	11	2	4	6	10			4	7	1	5	3	6	9	11	10	11	10	11	9	9	8	9
Onosma polychroma Klokov ex M.Pop.	5	12	4	9	7	12	8	14	6	10	3	8	4	7	8	10	10	12	10	11	8	9	8	9
Onosma polyphylla Ledeb.	5	12	2	6	8	10	8	13	6	12	2	6	2	5	11	12	9	10	7	9	9	10	8	9
Onosma rigida Ledeb.	3	19	2	5	7	12	6	12	10	12	1	5	3	6	10	11	9	11	7	12	9	10	8	9
Onosma subtinctoria Klokov	5	11	2	5	7	12	7	11	9	12	2	6	3	6	9	11	10	12	10	11	8	9	8	9
Onosma tanaitica Klokov	3	11	2	7	7	13	6	11	7	12	2	6	3	6	5	10	10	13	10	11	8	9	8	9
Onosma taurica Pall.	3	11	2	5	7	12	6	13	10	12	1	5	3	6	10	11	9	11	7	12	8	10	6	9
Onosma tinctoria Bieb.	5	11	2	5	7	10	7	12	9	12	2	6	3	6	7	11	10	14	10	13	7	9	8	9
Ophioglossum vulgatum L.	10	17	3	6	7	11	5	7	5	10	2	7	5	9	5	14	3	20	2	11	7	12	4	8
Ophrys apifera Huds.	8	13	4	8	7	12	8	12	9	12	2	5	4	7	8	13	9	16	2	11	10	13	7	9
Ophrys insectifera L.	8	15	4	8	7	12	4	9	8	11	2	7	4	7	6	12	12	15	3	8	8	11	6	9
Ophrys taurica (Agg.) Nevski	7	13	4	8	8	11	7	12	9	13	2	6	4	7	11	14	9	13	6	9	9	11	6	9
Opuntia humifusa Raf.	1	9	3	7	8	11	4	13	5	12	1	6	4	7	12	15	10	14	9	14	9	14	8	9
Orchis coriophora L.	8	16	5	9	7	12	3	12	5	9	2	7	5	8	6	14	3	14	6	14	6	13	5	9
Orchis fragrans Pollini	8	17	6	11	7	12	7	16	7	9	3	7	5	9	6	14	3	14	6	12	8	12	6	9
Orchis laxiflora Lam.	10	18	3	9	3	9	3	7	3	8	4	9	7	12	7	14	7	15	3	12	10	13	6	9
Orchis mascula (L.) L.	8	15	4	8	7	11	5	10	4	10	2	7	4	9	6	13	6	18	1	15	8	13	5	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	ReA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Orchis militaris</i> L.	6	15	4	8	7	12	5	11	5	12	3	7	4	8	5	13	11	14	5	16	4	11	6	9
<i>Orchis morio</i> L.	8	17	6	9	5	10	3	9	5	9	2	7	5	8	7	11	8	16	2	12	8	13	6	9
<i>Orchis pallens</i> L.	8	15	4	7	8	11	4	9	8	10	3	8	6	8	8	12	11	14	7	10	9	11	4	9
<i>Orchis palustris</i> Jacq.	13	16	5	9	7	11	4	12	5	10	2	7	7	11	8	13	10	14	4	16	7	12	5	9
<i>Orchis picta</i> Loisel	7	13	5	11	7	12	5	14	7	11	3	8	5	8	10	13	8	13	4	12	10	13	7	9
<i>Orchis provincialis</i> Balb.	7	14	4	8	7	12	7	12	7	10	3	7	4	8	10	13	8	14	6	12	10	13	5	9
<i>Orchis punctulata</i> Stev. ex Lindl.	7	12	4	8	7	12	7	12	7	10	3	7	4	8	10	13	5	12	6	12	9	13	5	9
<i>Orchis purpurea</i> Huds.	8	14	4	7	8	11	5	10	5	10	3	8	5	8	8	12	11	14	4	11	8	12	11	9
<i>Orchis signifera</i> Vest.	8	14	4	8	7	11	5	10	6	10	4	9	5	8	7	12	12	14	4	11	8	11	5	9
<i>Orchis simia</i> Lam.	6	12	4	8	8	11	7	12	7	11	3	9	5	8	9	12	11	14	3	11	10	13	5	9
<i>Orchis tridentata</i> Scop.	5	14	4	7	8	11	7	12	6	10	3	8	4	8	8	13	6	14	7	11	9	12	7	9
<i>Orchis ustulata</i> L.	8	15	4	8	7	11	6	12	7	10	5	9	4	7	5	12	12	15	3	12	6	12	5	9
<i>Oreochloa disticha</i> (Wulf.) Link	9	14	4	6	2	6	2	5	3	6	1	5	3	7	3	4	16	18	6	7	5	7	8	9
<i>Oreopteris limbosperma</i> (All.) Holub	9	15	1	5	4	7	5	9	3	9	7	10	5	9	5	11	11	23	1	7	8	11	2	5
<i>Origanum vulgare</i> L.	5	15	4	8	7	11	3	11	5	9	3	7	4	8	4	13	8	16	2	17	4	12	6	9
<i>Orlaya daucoides</i> (L.) Greuter	6	12	3	7	7	11	6	11	7	9	4	9	4	7	10	14	6	11	5	15	10	13	8	9
<i>Orlaya grandiflora</i> (L.) Hoffm.	6	12	3	7	7	11	7	11	9	12	3	9	4	7	9	13	9	14	4	12	9	12	8	9
<i>Ornithogalum amphibolium</i> Zahar.	5	12	4	9	7	12	6	11	5	9	2	7	3	7	9	11	10	11	10	11	9	10	8	9
<i>Ornithogalum fimbriatum</i> Willd.	8	14	3	7	7	11	5	10	7	11	4	7	3	7	10	12	10	13	7	12	9	12	6	9
<i>Ornithogalum fischerianum</i> Krasch.	6	12	4	8	7	12	9	15	6	10	3	8	5	9	6	11	11	17	10	15	6	9	8	9
<i>Ornithogalum flavescens</i> Lam.	5	12	3	7	7	12	5	12	7	11	1	8	4	7	9	14	7	13	1	12	9	12	8	9

Ornithogalum gussonei Ten.	5	13	3	7	7	11	5	9	7	7	11	3	8	4	7	9	12	6	14	6	17	6	12	6	9
Ornithogalum ponticum Zahar.	8	15	3	6	7	12	5	10	8	8	10	2	8	5	8	9	12	10	13	10	12	9	10	4	7
Ornithogalum umbellatum L.	8	15	3	7	5	11	5	9	8	8	11	3	9	4	8	8	12	8	15	5	11	8	13	4	9
Ornithopus perpupillus L.	5	10	7	10	3	7	3	8	3	3	7	1	6	3	6	7	14	12	15	2	9	9	13	8	9
Orobanche alba Steph.	5	16	3	7	4	11	4	12	4	7	11	3	7	3	7	7	14	6	15	1	16	8	11	7	9
Orobanche alsatica Kirschl.	5	14	5	9	6	10	4	9	8	7	11	3	7	4	7	6	9	9	13	6	15	5	10	6	9
Orobanche arenaria Borkh.	5	12	4	9	5	9	6	11	4	5	9	1	5	3	7	7	14	7	14	4	16	7	12	7	9
Orobanche caesia Reichenb.	5	11	7	10	7	12	6	13	7	7	12	3	7	4	8	8	12	3	12	6	17	4	10	8	9
Orobanche caryophyllacea Smith	5	12	4	7	9	12	7	13	9	7	12	3	7	4	7	7	14	10	14	2	11	8	12	7	9
Orobanche cernua Loeffl.	5	13	3	7	7	12	7	12	8	7	12	3	7	4	9	11	14	3	11	8	17	7	13	7	9
Orobanche coerulea Steph.	5	12	7	11	3	12	6	12	3	5	9	1	5	3	7	4	12	6	14	7	17	1	14	7	9
Orobanche crenata Forssk.	4	13	3	7	7	12	8	12	9	7	12	3	7	4	7	11	14	3	11	8	17	10	13	6	9
Orobanche cumana Wallr.	5	13	4	7	7	12	7	12	7	7	10	3	9	4	9	8	11	5	12	6	17	5	10	7	9
Orobanche elatior Sutt.	5	13	4	7	7	12	7	12	8	7	11	3	7	4	7	7	11	8	15	3	16	6	12	6	8
Orobanche flava C Mart. ex F. Schultz	13	18	7	11	4	7	3	7	5	5	8	3	7			6	9	13	16	5	7	8	10	5	8
Orobanche hederæ Duby	8	16	4	7	6	10	7	11	7	7	10	5	9	5	9	8	14	10	15	2	10	10	13	4	6
Orobanche libanotidis Rupr.	5	12	4	9	5	12	7	12	7	7	11	3	8	4	8	6	12	6	14	6	15	6	10	6	9
Orobanche lutea Baumg.	5	13	3	7	7	11	8	12	9	7	12	3	7	4	7	9	14	3	15	5	15	8	12	7	9
Orobanche minor Smith	5	13	3	9	7	11	7	12	8	7	11	3	8	4	7	8	16	3	16	3	14	9	13	7	9
Orobanche pallidiflora Wimm. et Grab.	7	16	5	9	6	11	6	10	5	5	9	5	9	5	9	6	11	10	18	4	15	6	12	7	9
Orobanche pictidis F. Schultz	5	13	6	9	6	11	6	11	4	7	7	1	6	5	7	7	12	11	15	4	12	9	12	7	9
Orobanche purpurea Jacq.	5	13	5	8	7	12	6	12	5	5	9	3	7	5	8	7	13	3	15	1	13	6	12	7	9
Orobanche ramosa L.	8	15	5	8	6	11	6	11	5	5	9	5	9	5	8	7	13	5	15	5	17	7	13	6	8

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NH	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Orobanche reticulata</i> Wallr.	7	16	5	8	4	9	3	8	4	7	2	7	5	7	5	12	10	16	4	15	6	12	7	9
<i>Orobanche teucrii</i> Holandre	5	10	4	7	9	12	4	10	7	9	3	7	4	7	9	11	12	14	5	9	9	11	7	9
<i>Orphantha lutea</i> (L.) A. Kerner ex Wettst.	5	10	4	9	9	12	7	12	5	10	2	8	3	7	7	12	10	14	6	13	7	12	7	9
<i>Orthilia secunda</i> (L.) House	8	16	4	7	5	9	3	7	2	7	2	6	5	8	3	12	12	16	1	17	1	11	2	6
<i>Ostericum palustre</i> (Bess.) Bess.	13	18	3	7	6	8	4	7	3	7	7	11	9	11	6	11	10	13	5	14	6	10	5	9
<i>Otites artemisectorum</i> Klokov	5	11	4	8	6	10	11	15	4	8	2	5	5	7	8	11	10	12	9	12	7	10	8	9
<i>Otites borysthénica</i> (Grun.) Klokov	5	12	4	8	3	9	3	15	5	9	1	5	4	7	7	11	8	14	7	17	4	10	8	9
<i>Otites chersonensis</i> (Zapat.) Klokov	5	11	4	8	6	10	5	11	5	11	2	7	5	7	8	11	10	12	9	12	7	10	8	9
<i>Otites cuneifolia</i> Raf.	5	12	7	11	4	7	2	5	3	8	1	4	4	6	7	12	11	15	3	9	8	12	6	9
<i>Otites densiflora</i> (D'Urv.) Grossh.	5	11	4	7	7	10	7	12	8	11	2	5	5	7	9	11	10	13	7	11	8	10	8	9
<i>Otites dolichocarpa</i> Klokov	5	11	4	7	3	6	2	8	2	6	1	4	5	7	9	11	10	13	7	11	8	10	8	9
<i>Otites donezica</i> Klokov	6	12	4	8	7	11	8	13	8	11	2	5	5	7	8	10	10	13	8	12	8	9	7	9
<i>Otites eugeniae</i> (Kleop.) Klokov	6	12	4	8	7	11	8	13	8	11	2	5	5	7	8	10	10	13	8	12	8	9	7	9
<i>Otites granitcola</i> Klokov	6	12	4	8	5	11	6	11	4	9	2	5	5	7	7	11	9	12	11	12	6	9	8	9
<i>Otites krymensis</i> (Kleopow) Klokov	5	11	4	8	9	11	7	14	11	13	1	5	5	7	7	11	9	12	111	12	6	9	8	9
<i>Otites maeotica</i> Klokov	6	12	4	8	7	11	8	13	8	11	2	5	5	7	7	11	9	12	11	12	6	9	8	9
<i>Otites media</i> (Litv.) Klokov	5	12	4	8	4	9	5	10	4	8	1	5	4	7	7	11	9	12	11	12	6	9	7	9
<i>Otites moldavica</i> Klokov	6	12	4	8	7	11	8	13	8	11	2	5	5	7	8	11	10	12	9	12	7	10	8	9
<i>Otites orae-syvaschicae</i> Klokov	5	12	4	8	6	10	11	15	4	8	2	5	5	7	6	10	5	13	12	17	2	10	8	9
<i>Otites wolgensis</i> (Hornem.) Grossh.	4	11	4	8	4	10	9	15	4	8	1	5	4	7	6	10	5	13	12	17	2	10	7	9
<i>Oxalis acetosella</i> L.	8	16	4	7	3	9	2	8	4	7	5	10	5	9	5	13	12	17	1	17	1	11	1	5

Oxybaphus nyctaginus (Michx.) Sweet	6	12	5	10	5	12	5	11	2	7	2	6	6	8	8	13	10	14	9	12	8	11	7	9
Oxycoccus microcarpus Turcz. ex Rupr.	13	17	3	6	1	3	1	3	1	3	1	5	8	12	1	8	12	17	1	17	2	15	5	9
Oxycoccus palustris Pers.	13	19	1	4	1	5	1	4	1	4	1	5	10	12	3	8	11	18	2	17	2	17	5	9
Oxyria digyna (L.) Hill	8	15	3	7	3	9	1	5	1	4	2	7	3	6	1	7	15	18	1	17	1	11	7	9
Oxytropis carpatica Uechtr.	8	14	3	6	7	9	3	7	10	12	2	7	5	8	5	6	16	18	6	7	6	7	8	9
Oxytropis pallasii Pers.	3	9	3	5	9	11	8	12	11	13	3	5	4	7	11	12	9	11	7	15	9	11	8	9
Oxytropis pilosa (L.) DC.	4	11	3	7	7	11	6	12	7	11	1	7	4	7	5	12	10	13	6	15	4	10	7	9
Padus avium Mill.	10	19	7	10	5	11	3	9	4	8	5	11	7	11	4	12	11	18	1	14	4	11	3	8
Padus serotina (Ehrh.) Ag.	9	15	4	7	5	11	4	9	4	9	3	9	5	9	8	15	7	12	6	11			4	8
Padus virginiana (L.) Roem.	9	15	4	7	5	11	4	9	4	9	3	9	5	9	5	13	7	13	5	11			4	8
Paeonia daurica Andr.	8	14	3	7	7	11	4	10	8	11	4	7	5	8	9	11	10	12	7	10	9	11	4	7
Paeonia tenuifolia L.	5	11	5	9	9	11	4	10	8	13	3	7	5	7	8	11	9	11	10	14	6	10	6	9
Paliurus spina-christi Mill.	3	11	3	7	7	11	5	12	9	10	1	7	4	7	9	13	7	13	3	9	9	13	6	9
Papaver albiflorum (Bess.) Pacz.	6	13	6	9	5	9	4	8	6	9	2	6	5	7	9	11	11	14	6	11	9	11	8	9
Papaver argemone L.	6	13	6	9	5	9	4	6	5	9	3	8	4	7	6	15	10	14	4	12	8	12	7	9
Papaver dubium L.	5	13	6	9	5	12	4	12	6	9	3	8	5	7	6	14	3	14	3	12	7	13	7	9
Papaver hybridum L.	5	13	6	9	6	10	4	8	6	10	1	9	5	7	8	15	1	15	4	14	9	13	7	9
Papaver laevigatum Bieb.	6	13	6	11	5	11	4	15	6	10	3	8	5	7	9	12	10	12	8	11	9	11	7	9
Papaver maeoticum Klokov	4	9	7	11	5	11	5	15	3	9	1	4	4	8	10	11	9	11	8	11	8	10	8	9
Papaver rhoeas L.	5	14	6	11	7	11	5	9	6	9	4	9	5	7	7	15	1	16	2	15	8	13	7	9
Papaver somniferum L.	8	15	6	9	4	10	5	9	6	9	5	10	5	7	7	13			5	10			7	9
Papaver strigosum (Boenn.) Schur	5	14	6	9	6	12	4	13	6	9	3	8	5	7	9	11	9	14	4	12	9	12	7	9
Papaver tumidulum Klokov	5	14	6	9	6	11	4	16	5	9	1	5	5	7	8	12	9	11	8	11	9	10	8	9
Parapholis incurva (L.) C.E.Hubb.	4	10	9	11	8	11	3	12	3	6	1	6	3	6	9	16	3	15	3	17	8	15	8	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Parietaria diffusa</i> Mert. et Koch	4	11	6	10	8	11	7	12	8	12	1	6	3	6	8	15	1	16	1	17	9	13	6	9
<i>Parietaria officinalis</i> L.	9	15	5	8	7	11	8	10	7	10	8	11	3	7	8	12	6	14	3	16	9	11	3	6
<i>Parietaria serbica</i> Pancic	3	8	3	10	8	11	7	12	8	12	1	3	3	6	8	14	10	12	7	11	9	11	7	9
<i>Paris quadrifolia</i> L.	9	15	2	6	5	11	3	8	3	9	5	10	6	9	4	12	12	18	3	17	1	11	2	6
<i>Parnassia palustris</i> L.	10	19	2	5	7	12	3	10	3	10	2	5	8	11	3	12	9	20	1	17	1	12	7	9
<i>Paronychia cephalotes</i> (Bieb.) Bess.	4	11	2	6	5	13	6	12	7	13	1	5	5	7	9	11	10	12	8	11	9	11	8	9
<i>Partenocissus quinquefolia</i> (L.) Planch.	7	15	4	9	3	8	9	15	5	9	3	9	5	9	7	15			5	11	8	11	7	9
<i>Pastinaca sativa</i> L.	8	15	6	9	6	9	4	11	6	9	3	8	5	8	6	12	11	15	2	14	6	12	6	9
<i>Pastinaca umbrosa</i> Stev. ex DC.	7	14	6	9	7	10	7	11	6	9	3	8	5	8	10	12	5	12	6	15	9	12	6	9
<i>Pedicularis comosa</i> L.	8	15	3	9	7	11	7	11	6	12	3	7	5	8	6	12	9	14	6	14	6	10	6	9
<i>Pedicularis dasystachys</i> Schrenk	10	17	7	9	7	12	7	15	5	9	4	8	7	11	7	9	8	12	5	9	6	8	7	9
<i>Pedicularis exaltata</i> Bess.	10	15	3	6	7	8	3	10	4	9	5	9	6	9	8	10	12	14	6	8	8	9	7	9
<i>Pedicularis haquetii</i> Graf	10	15	3	6	6	8	3	6	3	7	4	6	6	9	3	6	15	17	6	8	8	9	7	9
<i>Pedicularis kaufmannii</i> Pinzg.	8	15	3	9	7	11	6	11	6	12	3	8	5	8	6	12	9	14	5	14	6	9	6	9
<i>Pedicularis oederi</i> Vahl	11	17	3	7	5	10	3	8	4	8	3	9	8	12	2	8	15	18	5	17	1	9	8	9
<i>Pedicularis palustris</i> L.	14	19	3	6	5	9	3	10	3	7	1	5	8	12	3	10	11	18	1	16	1	12	6	9
<i>Pedicularis sceptrum-carolinum</i> L.	11	19	3	7	7	11	3	10	3	7	5	9	9	12	2	10	11	15	5	17	1	10	7	9
<i>Pedicularis sibthorpii</i> Boiss.	6	13	3	7	7	12	5	11	7	12	2	8	4	8	8	11	10	13	7	15	9	10	7	9
<i>Pedicularis sylvatica</i> L.	8	17	3	6	1	5	2	7	2	6	2	6	8	11	5	12	13	18	1	8	9	12	6	9
<i>Pedicularis verticillata</i> L.	8	17	3	7	5	9	2	8	2	7	3	8	4	9	4	7	14	18	5	17	1	10	7	9
<i>Peganum harmala</i> L.	2	9	3	11	7	13		14	6	10	2	7	4	7	9	16	1	11	7	17	4	12	8	9
<i>Peplis portula</i> L.	10	17	9	11	3	7	3	8	3	7	1	6	6	9	5	13	3	12	2	12	6	12	7	9

Petasites albus (L.) Gaertn.	10	17	9	11	5	9	9	5	9	3	6	5	9	7	11	6	10	12	17	6	12	8	10	5	9
Petasites hybridus (L.) Gaertn., Mey. et Scherb.	10	18	9	11	5	9	5	8	3	3	7	6	10	7	11	7	11	12	16	6	10	8	10	5	9
Petasites kabilianus Tausch ex Bercht.	10	17	9	11	4	9	4	7	3	3	7	5	9	7	11	6	11	13	15	6	10	8	10	5	9
Petasites spurius (Retz.) Reichenb.	10	16	9	11	3	9	5	8	3	3	6	1	9	3	11	5	11	10	14	4	10	5	10	6	9
Petrothagia saxifraga (L.) Link	5	13	4	9	8	11	7	13	7	7	10	1	6	5	7	8	12	9	14	5	12	9	12	8	9
Petrosimonia brachiata (Pall.) Bunge	5	17	8	11	10	15	14	17	2	2	6	1	7	6	9	7	12	5	12	11	17	5	10	8	9
Petrosimonia oppositifolia (Pall.) Litv.	5	17	9	11	11	15	14	19	2	2	6	3	7	7	10	7	11	8	11	11	16	6	10	8	9
Petrosimonia triandra (Pall.) Simonk	5	13	8	11	12	13	14	17	2	2	6	1	7	6	9	6	11	7	12	11	17	5	10	7	9
Peucedanum arenarium Waldst. et Kit.	5	12	8	10	5	11	3	11	3	3	11	1	5	3	6	8	11	10	12	9	13	8	10	7	9
Peucedanum carvifolia Vill.	5	13	5	9	7	11	5	11	5	5	9	1	6	4	7	7	10	10	12	11	14	6	10	6	9
Peucedanum cervaria (L.) Lapeyr	5	14	5	9	6	10	4	9	5	5	10	3	7	4	7	7	12	12	15	6	12	8	11	6	9
Peucedanum latifolium DC.	6	13	6	8	7	14	9	15	5	5	9	3	10	5	9	8	10	9	11	6	8	8	10	7	9
Peucedanum lubimenkoanum Kotov	5	13	4	7	7	11	6	12	7	7	12	3	8	4	7	6	11	6	14	6	17	6	11	5	9
Peucedanum oreoselinum (L.) Moench	6	13	4	7	3	11	3	7	4	4	10	1	5	3	6	6	12	11	14	5	12	7	12	5	9
Peucedanum palustre (L.) Moench	14	20	4	9	5	9	2	9	3	3	7	3	7	8	11	4	11	11	15	3	13	5	11	5	9
Peucedanum ruthenicum Bieb.	5	12	5	9	7	11	5	11	4	4	12	2	8	3	7	8	11	10	13	6	13	7	10	6	9
Peucedanum tauricum Bieb.	4	12	4	7	7	11	5	11	7	7	11	2	7	3	7	8	10	10	12	7	9	9	10	6	9
Phalaris canariensis L.	9	16	2	6	5	11	7	10	4	4	7	6	10	7	11	6	13	9	16	5	14	5	14	7	9
Phalaroides arundinacea (L.) Rausch.	11	19	5	11	5	11	5	10	5	5	10	5	10	8	12	3	13	10	18	1	17	2	12	6	9
Phegopteris connectilis (Michx.) Watt	8	16	1	5	3	9	3	10	2	2	7	4	9	6	10	4	10	11	23	1	17	4	11	1	4

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Phleum alpinum</i> L.	8	15	3	6	5	9	3	9	3	5	5	10	4	7	2	6	14	16	1	8	5	10	7	9
<i>Phleum arenarium</i> L.	4	10	9	11	6	10	3	7	2	6	1	6	3	6	6	12	14	15	1	8	9	12	7	9
<i>Phleum hirsutum</i> Honck.	7	15	3	5	3	7	2	5	4	7	3	6	7	9	6	7	16	18	6	7	7	9	7	9
<i>Phleum montanum</i> C.Koch	7	12	5	9	7	11	7	11	7	10	3	7	7	9	9	11	11	14	7	9	8	9	8	9
<i>Phleum paniculatum</i> Huds.	5	13	7	10	8	11	7	12	7	11	2	7	3	7	8	12	5	14	6	17	6	12	7	9
<i>Phleum phleoides</i> (L.)Karst.	7	14	5	9	7	11	5	11	7	9	2	7	5	8	7	13	9	14	2	17	4	12	6	9
<i>Phleum pratense</i> L.	9	17	6	10	5	11	5	10	6	10	4	9	6	9	3	13	9	18	4	12	3	13	6	9
<i>Phlomis pungens</i> Willd.	3	12	3	6	7	11	7	11	9	12	2	7	4	8	8	13	5	13	10	15	6	10	7	9
<i>Phlomis taurica</i> Hartwiss et bunge	5	13	3	6	7	12	6	12	9	12	1	8	4	7	9	11	10	13	7	10	9	10	7	9
<i>Phlomis tuberosa</i> L.	3	15	4	8	6	12	6	10	9	11	4	9	4	8	6	13	8	13	6	17	1	10	6	9
<i>Pholurus pannonicus</i> (Host) Trin.	3	17	9	11	9	14	11	19	4	7	3	7	6	9	7	13	6	14	8	17	6	12	8	9
<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	8	19	2	11	5	13	3	17	2	9	3	9	10	15	3	15	1	20	1	17	1	15	5	9
<i>Phyllitis scolopendrium</i> (L.) Newm.	8	15	1	5	7	11	6	9	4	9	3	8	5	9	7	14	9	23	1	12	9	13	1	5
<i>Physalis alkekengi</i> L.	8	14	7	9	7	11	5	9	7	9	5	10	5	8	8	12	10	14	4	12	8	11	5	7
<i>Physocaulis nodosus</i> (L.) Koch	7	14	4	7	7	11	7	11	7	10	5	10	4	7	10	14	6	15	6	16	9	12	5	8
<i>Physospermum cornubiense</i> (L.) DC.	8	13	4	7	7	10	4	10	7	10	3	8	4	7	9	13	9	13	5	9	9	13	4	6
<i>Phyteuma orbiculare</i> L.	8	15	4	7	7	11	3	9	5	9	3	5	5	8	7	11	12	15	5	8	9	10	6	9
<i>Phyteuma spicatum</i> L.	8	15	4	7	5	9	4	9	5	8	3	9	5	9	7	11	12	15	5	10	9	10	4	6
<i>Phyteuma vagneri</i> A. Kerner	10	14	3	7	3	8	3	10	5	9	1	7	5	9	4	7	15	18	6	8	7	8	5	8
<i>Picea abies</i> (L.) Karst.	8	16	1	4	1	7	2	8	2	7	3	7	5	11	4	8	14	19	5	10	6	10	3	7
<i>Picris echinoides</i> L.	7	16	6	9	7	11	7	12	5	9	5	10	3	7	11	14	8	15	3	12	10	13	7	9
<i>Picris hieracioides</i> L.	5	13	7	10	7	11	5	13	4	9	3	7	3	7	6	13	9	15	5	12	5	13	7	9
<i>Pilularia globulifera</i> L.	16	19	9	11	7	12	5	10	7	10	3	6	8	13	6	11	13	17	2	7	10	13	7	9



Pimpinella dissecta Retz.	7	13	5	9	5	9	9	4	8	4	7	1	6	3	7	4	10	9	16	3	9	8	10	6	9	
Pimpinella lithophila Schischk.	5	11	3	6	7	12	5	12	9	12	9	12	1	7	3	6	7	10	10	13	7	8	9	8	9	
Pimpinella major (L.) Huds.	8	16	4	7	5	11	4	9	6	9	6	9	5	10	4	7	5	13	11	15	2	9	8	12	6	9
Pimpinella saxifraga L.	6	15	4	7	5	10	4	10	8	12	8	12	2	5	4	7	4	13	10	18	3	15	5	11	6	9
Pimpinella titanophila Woronow	4	13	3	6	7	13	6	12	8	12	8	12	1	7	3	6	6	11	10	12	10	14	7	9	8	9
Pinguicula alpina L.	12	17	3	6	7	12	2	7	7	10	7	10	1	5	7	12	3	7	14	16	4	8	5	9	7	9
Pinguicula vulgaris L.	10	19	2	4	5	11	3	7	8	11	8	11	1	5	10	12	2	8	13	18	1	13	1	12	7	9
Pinus banksiana Lamb.	7	15	2	5	1	7	1	7	2	6	2	6	1	4	5	8	4	10	8	13	10	13	4	8	5	9
Pinus cembra L.	8	16	2	5	3	7	2	7	2	6	2	6	1	6	5	10	4	8	14	18	6	9	7	9	3	9
Pinus mugo Turra	7	16	1	4	2	7	2	8	1	9	1	9	1	6	5	11	7	8	15	18	7	8	8	9	4	9
Pinus pallasiana D. Don	6	14	3	6	4	11	4	11	8	13	8	13	2	8	4	7	10	11	10	13	7	11	9	13	5	9
Pinus sosnowskyi Nakai	7	15	2	5	4	10	4	10	8	12	8	12	2	8	4	7	9	11	10	13	8	12	6	9	5	9
Pinus stankeviczii (Sukacz.) Fomin	4	10	4	8	7	11	5	12	5	13	5	13	1	7	4	7	10	13	9	10	7	10	10	11	6	9
Pinus strobus L.	8	16	2	5	2	9	2	9	3	9	3	9	2	7	4	8	8	12	7	12	10	13	4	10	5	9
Pinus sylvestris L.	5	17	4	9	1	12	1	9	1	11	1	11	1	6	3	10	4	10	11	20	2	17	3	12	5	9
Piptatherum holciforme (Bieb.) Roem. et Schult.	5	14	4	8	7	11	5	10	9	11	9	11	5	7	3	6	9	14	8	12	6	10	10	12	5	9
Piptatherum virescens (Trin.) Boiss.	8	14	5	7	7	11	5	10	8	10	8	10	3	8	3	7	9	14	8	12	6	10	9	12	5	8
Pistacia mutica Fisch. et Mey.	4	12	5	9	7	11	5	12	5	11	5	11	2	8	4	7	10	13	7	11	3	8	4	13	6	9
Pisum elatius Bieb.	7	14	5	8	9	12	7	12	8	11	8	11	5	10	4	7	10	13	7	12	6	12	9	14	6	9
Plantago stepposa Kuprian.	5	14	5	9	7	11	3	13	7	12	7	12	5	9	4	7	7	11	10	14	9	17	1	9	6	9
Plantago arenaria Waldst. et Kit.	5	12	8	11	5	13	3	16	3	7	3	7	1	4	3	6	7	11	10	14	6	17	6	12	7	9
Plantago cornuti Gouan	10	19	8	11	7	13	8	16	6	9	6	9	3	10	6	10	6	12	3	14	5	9	1	11	7	9
Plantago coronopus L.	8	16	8	10	9	11	10	16	2	5	3	7	6	7	6	8	7	15	6	18	1	17	10	14	8	9
Plantago lanceolata L.	3	17	5	10	5	14	3	15	7	11	3	9	4	9	4	7	4	14	5	18	1	17	6	13	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Plantago major</i> L.	8	17	7	11	5	10	3	13	7	9	5	9	5	8	5	14	5	18	1	17	1	15	7	9
<i>Plantago maxima</i> Juss. ex Jacq.	8	15	8	10	7	12	9	15	5	9	3	9	7	10	7	11	5	13	5	9	3	8	7	9
<i>Plantago media</i> L.	5	16	5	10	7	12	3	15	7	11	2	7	4	7	3	13	8	16	3	17	1	11	6	9
<i>Plantago salsa</i> Pall.	8	17	8	10	8	14	10	18	5	9	3	11	6	10	6	10	6	13	8	17	4	10	7	9
<i>Plantago scabra</i> Moench	3	12			5	10	6	13			3	7			6	13	3	13	5	17	6	11	7	9
<i>Plantago tenuiflora</i> Waldst. et Kit.	10	16	8	11	10	13	9	16	4	9	5	8	6	10	7	10	10	12	5	15	6	9	7	9
<i>Plantanthera bifolia</i> (L.) Rich.	8	17	4	7	5	11	4	9	4	9	2	7	5	9	4	12	2	14	6	12	4	11	4	7
<i>Plantanthera chlorantha</i> (Cust.) Reichenb.	8	17	4	7	6	11	5	9	4	11	3	9	5	8	6	13	3	14	6	12	6	12	4	7
<i>Pleconax subconica</i> (Friv.) Šourková	5	10	4	9	6	12	7	15	6	10	1	6	5	6	9	13	8	12	6	12	9	13	8	9
<i>Pleurospermum austriacum</i> (L.) Hoffm.	8	15	4	7	7	11	5	9	5	9	3	7	6	8	3	7	12	14	5	8	5	10	4	7
<i>Poa alpina</i> L.	8	15	5	9	5	9	3	9	4	8	5	9	5	7	2	8	13	18	1	11	4	11	7	9
<i>Poa angustifolia</i> L.	5	16	5	8	5	12	6	13	6	10	3	8	5	8	4	13	9	16	1	17	3	11	6	9
<i>Poa annua</i> L.	8	19	5	9	5	11	3	10	4	8	5	10	7	10	3	15	3	20	2	14	2	15	6	9
<i>Poa balfourii</i> Parn.	10	14	3	6	3	7	3	6	3	6	1	4	3	7	5	8	14	18	1	7	7	9	7	9
<i>Poa bulbosa</i> L.	3	13	7	11	4	13	5	16	3	11	1	5	3	7	7	13	5	15	2	17	6	13	8	9
<i>Poa chaixii</i> Vill.	8	15	3	7	3	7	3	9	3	7	3	7	6	9	7	13	14	18	6	10	8	11	6	9
<i>Poa compressa</i> L.	5	13	5	9	9	12	5	10	4	12	1	5	3	7	5	11	5	18	2	17	5	12	7	9
<i>Poa deylii</i> Chrtěk et Jiras.	10	17	4	7	3	7	3	6	3	6	1	6	3	7	4	6	14	17	5	7	8	8	7	9
<i>Poa hybrida</i> Gaud.	9	16	4	6	7	9	2	5	7	9	3	6	5	8	8	11	12	15	8	11	8	10	5	8
<i>Poa longifolia</i> Trin.	9	16	5	8	5	11	6	11	6	9	3	9	5	8	6	9	11	14	7	9	9	10	5	9
<i>Poa nemoralis</i> L.	8	15	4	7	5	9	3	9	4	9	3	7	6	8	3	14	10	18	2	17	3	12	4	8
<i>Poa palustris</i> L.	13	19	4	9	7	11	5	11	4	7	5	10	8	12	3	13	15	15	3	17	1	11	6	9
<i>Poa pratensis</i> L.	7	18	4	7	5	9	4	14	5	9	4	9	6	9	2	12	10	18	1	17	1	10	5	9
<i>Poa remota</i> Forsell.	10	19	2	4	6	10	3	6	3	7	5	9	7	11	5	10	2	15	5	15	5	10	3	8

Poa stepposa (Kryl.) Roshev.	6	12	3	7	7	12	6	11	7	9	3	8	4	7	6	10	10	12	11	16	4	8	6	9
Poa sterilis Bieb.	6	10	3	7	5	11	5	12	7	10	2	8	3	7	9	11	10	12	8	10	9	11	6	9
Poa sylvicola Guss.	9	17	6	9	5	11	5	10	4	8	5	9	7	11	9	13	5	12	3	10	8	12	4	8
Poa taurica H. Pojark.	9	14	5	8	7	12	5	10	6	10	2	8	4	7	8	11	10	14	6	10	8	10	6	9
Poa trivialis L.	9	19	7	9	6	9	4	12	4	7	4	7	6	9	4	13	11	18	1	16	1	12	4	8
Poa turfosa Litv.	13	19	2	5	4	7	3	6	4	8	5	8	7	11	6	9	12	14	5	17	1	11	5	9
Poa versicolor Bess.	5	13	3	7	7	11	5	11	7	11	2	7	3	7	8	10	11	12	8	9	9	12	7	9
Polemonium caeruleum L.	12	19	3	6	6	9	4	8	5	8	5	8	8	11	3	8	10	16	3	16	4	9	6	9
Polychnemum majus A.Br.	4	11	3	7	8	12	8	12	8	11	3	8	3	7	7	14	6	14	10	17	8	13	8	9
Polychnemum minus Kitt.	5	12	3	10	7	12	6	17	5	10	3	8	3	8	7	14	3	14	6	17	6	12	8	9
Polygala amarella Grantz	8	17	6	10	5	9	3	9	4	7	3	7	7	10	4	11	11	16	4	12	5	9	7	9
Polygala andrachnoides Willd.	7	15	5	9	7	13	6	12	8	11	2	6	5	8	8	12	5	13	7	11	9	12	6	9
Polygala comosa Schkuhr.	5	15	3	9	7	11	3	13	7	11	2	5	4	8	4	11	10	18	5	14	5	11	7	9
Polygala cretacea Kotov	4	12	3	5	7	11	6	12	11	13	3	8	4	7	9	10	10	11	10	12	8	9	8	9
Polygala major Jacq.	7	13	3	6	7	12	7	13	10	13	2	8	4	7	8	12	4	13	7	12	8	10	7	9
Polygala podolica D&c.	5	13	3	7	7	11	6	11	9	12	3	8	4	7	7	10	11	14	6	13	7	10	7	9
Polygala sibirica L.	3	12	3	6	9	11	9	13	11	13	2	7	4	7	7	11	3	15	6	17	4	10	7	9
Polygala subamara Fritsch	7	16	3	6	8	11	7	11	9	11	1	6	3	7	3	5	14	16	4	7	8	9	8	9
Polygala vulgaris L.	7	16	5	9	3	9	3	8	4	9	3	7	6	9	4	10	12	18	1	8	7	12	7	9
Polygala wolfgangiana Bess. ex Ledeb.	7	16	3	8	3	9	3	8	4	6	2	5	4	7	5	9	12	14	5	9	7	10	6	9
Polygonatum latifolium Desf.	8	14	4	7	7	10	5	10	5	9	4	8	6	9	8	11	11	13	7	11	9	11	2	5
Polygonatum multiflorum (L.) All.	9	16	4	7	5	9	5	10	5	8	5	9	7	10	6	12	12	15	2	13	6	11	1	5
Polygonatum odoratum (Mill.) Druce	5	14	5	9	5	11	3	11	8	11	2	7	4	8	6	12	11	16	3	17	4	12	4	9
Polygonatum verticillatum (L.) All.	8	16	4	7	4	9	4	9	3	9	3	8	6	9	5	12	7	18	3	11	7	10	1	6

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Polygonum alpinum</i> All.	5	15	3	9	3	12	3	12	5	12	5	9	3	8	2	8	11	18	2	17	1	10	8	9
<i>Polygonum amphibium</i> L.	14	21	3	11	5	9	3	15	4	9	5	10	10	13	4	14	3	18	1	17	1	12	6	9
<i>Polygonum arenarium</i> Waldst.et Kit.	5	15	10	11	5	12	6	16	3	7	1	7	3	6	8	11	8	13	9	14	7	10	8	9
<i>Polygonum aviculare</i> L.	3	16	5	11	5	12	4	15	4	7	3	9	3	8	4	14	3	18	1	17	1	15	6	9
<i>Polygonum bistorta</i> L.	10	19	3	7	2	7	3	9	2	5	3	9	7	11	2	11	10	18	2	17	1	12	6	9
<i>Polygonum convolvulus</i> L.	4	17	4	9	5	11	6	10	4	9	2	10	4	9	4	13	3	18	1	17	1	12	6	9
<i>Polygonum dumetorum</i> L.	9	14	4	11	5	11	4	8	4	9	4	9	3	10	5	13	3	18	3	17	3	12	5	9
<i>Polygonum hydropiper</i> L.	10	19	9	9	3	9	3	11	4	9	3	10	6	11	5	13	3	18	1	17	2	15	6	9
<i>Polygonum lapathifolium</i> L.	8	17	8	11	3	12	4	16	3	7	2	6	16	11	3	14	3	18	1	17	1	11	7	9
<i>Polygonum maritimum</i> L.	9	18	9	11	11	15	11	17	4	11	3	7	3	8	9	14	6	14	2	8	9	13	8	9
<i>Polygonum minus</i> Huds.	10	19	3	10	3	9	3	8	4	8	6	10	6	11	5	14	8	16	3	13	4	13	5	9
<i>Polygonum mite</i> Schrank	10	18	3	9	4	11	3	10	4	8	5	9	6	11	7	13	9	16	5	11	6	12	5	9
<i>Polygonum nodosum</i> Pers.	11	21	3	7	5	11	8	15	4	8	7	10	7	13	6	14	5	18	1	17	1	11	7	9
<i>Polygonum paniculatum</i> Andrz.	8	16	9	11	5	12	4	16	4	9	2	6	5	10	8	11	10	12	7	12	8	9	7	9
<i>Polygonum patulum</i> Bieb.	2	14	3	9	7	11	4	15	9	11	1	5	4	7	7	13	10	11	10	13	6	9	8	9
<i>Polygonum persicaria</i> L.	8	17	3	10	5	9	4	12	3	7	5	10	6	13	6	14	3	18	3	13	4	13	6	9
<i>Polygonum scabrum</i> Moench	7	19	9	11	7	11	3	11	4	7	4	9	6	12	4	14	3	18	9	17	1	10	7	9
<i>Polygonum scythicum</i> Klokov	6	14	9	11	7	15	14	18	4	6	3	11	3	6	10	11	10	11	10	11	8	9	8	9
<i>Polygonum tomentosum</i> Schrank	9	17	9	11	5	10	5	12	3	7	3	9	6	10	4	10	11	18	5	17	1	10	6	9
<i>Polygonum viviparum</i> L.	8	15	3	6	3	7	3	8	3	8	3	7	3	8	1	7	14	18	1	17	1	11	8	9
<i>Polypodium vulgare</i> L.	7	16	1	5	6	11	4	10	3	11	3	9	4	9	4	14	6	18	2	12	7	13	4	7
<i>Polygonum semiverticillatum</i> (Forsk.) Hyl.	10	17	6	9	9	12	8	14	6	10	4	8			8	14	3	15	4	17	9	13	7	9
<i>Polystichum aculeatum</i> (L.) Roth	9	16	1	4	7	10	6	9	7	9	5	10	5	9	7	12	2	23	6	13	8	13	2	5

Polystichum braunii (Spenn.) Fee	9	16	3	5	5	11	4	10	6	9	4	9	5	9	5	12	9	23	4	17	4	15	2	5
Polystichum lonchitis (L.) Roth	8	15	1	6	7	11	5	9	8	11	3	6	5	9	4	8	14	23	1	11	5	11	3	8
Polystichum setiferum (Forsk.) Moore ex Woyнар	9	16	3	5	7	11	5	12	7	10	3	8	5	9	7	14	10	18	1	12	10	13	3	7
Populus alba L.	8	17	5	11	7	11	5	11	3	9	5	9	4	8	7	14	5	16	3	11	5	13	5	9
Populus nigra L.	10	18	5	9	7	11	5	11	3	9	5	10	4	7	6	14	5	16	3	16	5	13	5	9
Populus tremula L.	8	19	4	8	5	9	3	9	3	8	3	8	6	10	4	12	5	18	1	17	1	12	4	9
Portulaca oleracea L.	5	14	8	11	3	8	1	5	2	7	1	5	3	6	7	17	6	20	1	17	5	15	7	9
Potamogeton acutifolius Link	21	23	1	5	5	9	4	8	2	7	3	7	13	15	4	13	10	18	1	11	5	12	5	7
Potamogeton alpinus Balb.	19	23	3	8	7	12	5	10	5	9	3	7	12	15	2	14	5	18	1	17	1	11	7	9
Potamogeton compresus L.	19	23	3	7	7	10	5	10	4	8	7	10	12	15	5	11	9	17	2	17	3	11	5	8
Potamogeton crispus L.	19	23	1	5	6	12	7	14	7	9	5	9	12	15	5	17	3	18	2	14	5	15	5	7
Potamogeton friesii Rupr.	17	21	3	8	6	12	6	15	4	8	3	8	12	15	7	9	11	16	3	11	6	11	7	9
Potamogeton gramineus L.	19	23	3	8	6	11	6	15	4	8	1	7	12	15	3	11	5	15	5	15	3	11	7	9
Potamogeton lucens L.	19	23	1	7	7	11	6	11	4	9	6	10	12	15	4	13	10	15	1	15	5	12	5	7
Potamogeton natans L.	19	23	3	7	6	12	6	11	4	8	4	9	12	15	4	14	3	18	1	17	3	13	7	9
Potamogeton nodosus Poir.	19	23	3	7	7	11	6	13	4	8	4	9	12	15	7	13	3	18	3	12	3	13	7	9
Potamogeton obtusifolius Mert. et Koch	21	23	3	7	6	12	6	11	4	8	6	10	13	15	6	12	1	16	3	17	4	11	5	8
Potamogeton pectinatus L.	21	23	3	7	11	14	7	17	5	10	5	10	13	15	3	13	2	18	1	17	1	15	5	8
Potamogeton perfoliatus L.	19	23	1	5	7	11	7	11	4	9	3	7	12	15	3	15	3	18	3	15	1	15	5	7
Potamogeton praelongus Wulf.	19	23	1	5	7	11	5	10	4	9	3	7	12	14	3	9	5	18	6	14	1	15	5	7
Potamogeton pusillus L.	19	23	1	5	7	11	5	11	4	9	6	10	13	15	3	15	3	18	3	15	1	15	5	8
Potamogeton rutilus Wolfg.	21	23	3	8	7	11	3	9	2	6	5	9	13	15	5	9	12	16	2	12	7	10	5	8
Potamogeton sarmaticus Maemtas	21	23	3	8	7	12	8	15	4	8	5	9	13	15	8	12	6	12	9	15	7	10	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
Potamogeton trichoides Cham. et Schlecht.	21	23	1	5	7	11	5	11	4	8	5	9	13	15	6	14	6	16	3	15	6	12	7	9
Potentilla alba L.	7	16	4	7	5	8	3	9	7	11	3	9	5	8	7	12	11	14	6	10	7	10	6	9
Potentilla angustifolia DC.	5	12			7	12	6	12			2	8			7	9	11	13	5	12	9	11		
Potentilla anserina L.	5	19	9	11	6	10	5	13	4	9	5	10	8	12	2	13	11	18	1	17	1	11	5	9
Potentilla arenaria Borkh.	3	11	3	7	7	11	4	10	9	12	1	7	4	7	6	11	10	14	5	14	6	10	6	9
Potentilla argentea L.	5	14	4	9	3	12	4	14	4	9	2	5	4	8	4	12	10	17	2	16	5	11	6	9
Potentilla astracana Jacq.	4	14	4	11	3	11	4	10	4	10	1	6	3	7	6	12	5	13	8	14	7	9	8	9
Potentilla aurea L.	8	15	3	7	3	7	3	10	3	8	1	6	3	8	5	6	15	18	4	9	7	9	7	9
Potentilla bornmuelleri Borb.	6	11			7	12			5	5	1	8			11	12	10	11	8	10	9	10		
Potentilla callieri (Th. Wolf) Juz.	6	13	3	7	7	12	6	12	8	12	3	7	4	7	7	11	9	12	7	8	8	10	7	9
Potentilla canescens Bess.	5	12	4	9	5	10	5	10	4	7	3	7	4	7	5	12	9	14	5	12	8	12	6	9
Potentilla collina Wib.	3	14	4	10	3	9	3	8	4	8	2	6	3	7	7	11	10	14	6	12	7	11	6	9
Potentilla crantzii (Crantz) G. Beck ex Fritsch	8	15	3	8	7	11	4	8	5	10	3	7	3	7	2	7	14	18	1	10	5	11	7	9
Potentilla depressa Willd. ex Schlecht.	6	13	3	7	7	12	5	12	9	13	3	5	4	7	7	8	12	13	7	8	9	9	7	9
Potentilla erecta (L.) Rausch.	5	18	4	9	4	10	3	10	4	7	2	8	6	9	3	11	11	18	1	13	5	13	4	9
Potentilla geoides Bieb.	5	14	3	7	7	12	7	13	9	12	2	7	4	7	7	8	12	13	7	8	7	9	7	9
Potentilla goldbachii Rupr.	8	13	5	8	4	8	5	9	4	7	3	8	5	8	5	9	9	14	7	10	5	12	6	9
Potentilla heptaphylla L.	3	13	4	9	3	11	4	10	4	7	3	8	3	7	7	11	9	14	5	15	5	10	6	9
Potentilla humifusa Willd. ex Schlecht.	3	12	4	9	6	11	7	11	7	11	3	8	4	7	5	11	9	14	6	16	5	11	6	9
Potentilla impolita Wahlenb.	5	12	4	9	3	12	4	14	5	10	2	5	4	8	4	12	10	17	4	16	5	11	6	9
Potentilla intermedia L.	5	13	4	9	7	10	5	10	5	12	3	9	4	8	6	8	12	14	7	9	6	10	6	9
Potentilla jaitlae Juz.	6	12	4	8	6	11	5	11	2	9	2	6	3	7	6	13	11	14	6	12	9	12	8	9

Potentilla micrantha Ramond ex DC.	5	13	4	8	7	11	5	11	7	11	3	8	5	8	10	13	11	13	6	12	9	13	4	6
Potentilla norvegica L.	8	17	5	9	5	9	5	9	7	10	4	9	4	9	3	11	10	16	7	11	5	11	6	9
Potentilla obscura Willd.	7	15	5	9	7	11	5	11	6	10	3	8	4	8	8	12	11	13	6	15	6	13	5	9
Potentilla orientalis Juz.	3	12	5	10	6	12	7	13	6	11	2	7	3	7	9	11	4	11	8	17	6	10	8	9
Potentilla patula Waldst. et Kit.	6	12	4	8	7	12	7	13	6	11	2	7	4	7	9	12	10	13	8	13	6	10	7	9
Potentilla pedata Nestl.	6	12	3	7	7	13	5	12	7	11	1	8	4	7	9	13	8	13	7	11	8	10	7	9
Potentilla pilosa Willd.	5	15	5	9	6	11	5	9	6	10	3	8	4	8	8	12	9	13	2	13	6	12	6	9
Potentilla reptans L.	9	17	8	11	5	12	3	15	4	9	3	9	6	10	6	14	6	16	1	15	6	14	5	9
Potentilla semilaciniosa Borb.	8	13	5	9	6	11	6	11	7	10	2	8	4	8	9	11	10	11	7	13	7	11	5	9
Potentilla supina L.	9	17	7	9	7	11	6	11	5	11	5	9	4	8	6	14	9	15	5	17	1	13	7	9
Potentilla thyrsiflora Huels. ex Zimmer	3	14			3	9	3	8	4	8	2	6	3	7	7	11	10	14	6	13	6	10	6	9
Poterium polygamum Waldst. et Kit.	5	12	4	8	7	12	6	13	8	12	2	8	4	7	9	14	3	11	6	16	7	14	7	9
Poterium sanguisorba L.	7	13	4	8	7	10	5	12	6	11	2	6	4	7	7	11	10	14	2	16	6	13	6	9
Prangos odontalgica (Pall.) Herrnst. et Heyn	4	12	7	10	8	12	11	16	5	10	1	6	5	8	7	11	8	10	10	15	8	10	8	9
Prangos trifida (Mill.) Herrnst. et Heyn	6	12	3	6	7	11	5	11	9	11	3	8	4	7	9	11	11	13	7	9	8	10	6	9
Prenanthes purpurea L.	8	15	4	6	5	11	3	9	4	7	3	9	5	8	7	13	12	16	5	11	7	10	2	6
Primula elatior (L.) Hill	9	15	4	8	5	11	5	9	7	11	5	10	6	8	7	12	12	16	5	8	8	11	5	9
Primula farinosa L.	10	18	2	5	8	11	3	9	7	9	2	5	8	11	3	7	14	18	1	17	7	11	7	9
Primula halleri J.F. Gmel.	5	14	8	10	4	7	1	4	9	11	1	7	4	6	3	7	16	18	6	8	7	9	7	9
Primula macrocalyx Bunge	8	14	4	8	7	11	5	8	7	11	2	7	6	8	6	11	9	13	3	14	6	9	6	9
Primula minima L.	8	16	4	7	1	6	1	5	1	5	1	7	5	7	2	7	15	19	5	8	7	10	7	9
Primula veris L.	5	16	4	8	7	11	5	9	4	10	3	7	6	8	6	12	10	15	2	11	6	12	6	9
Primula vulgaris Huds.	8	15	5	8	5	10	5	10	8	11	3	8	5	6	6	13	10	18	1	11	9	12	4	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	Knl	KnA	CrI	CrA	LcI	LcA
<i>Prunella grandiflora</i> (L.) Scholl.	5	13	5	7	7	11	5	10	9	12	1	7	4	7	6	13	11	14	5	12	6	11	7	9
<i>Prunella laciniata</i> (L.) L.	7	13	5	7	7	12	6	11	7	10	2	8	4	7	9	14	9	14	3	13	8	12	7	9
<i>Prunella vulgaris</i> L.	7	18	6	9	4	9	3	10	5	11	3	9	5	8	3	13	6	8	1	15	2	14	5	9
<i>Prunus divaricata</i> Ledeb.	7	13	5	7	5	11	7	12	7	11	5	9	4	7	9	13	9	15	3	11	8	11	5	9
<i>Prunus domestica</i> L.	7	15	5	7	5	11	7	11	7	10	5	9	5	8	8	13	5	15	2	16	6	12	6	9
<i>Prunus spinosa</i> L.	5	15	5	7	5	12	3	11	6	10	3	9	4	8	5	14	8	16	1	15	6	12	6	9
<i>Prunus stepposa</i> Kotov	6	13	5	7	6	11	5	10	9	11	3	8	4	8	7	10	10	13	8	15	6	9	6	9
<i>Psammophilhiella muralis</i> (L.) Ikonn.	5	16	2	9	2	7	4	10	8	10	2	7	5	10	5	11	9	15	6	15	5	11	8	9
<i>Psammophilhiella stepposa</i> (Klokov) Ikonn.	13	13	4	9	5	10	10	15	4	11	1	5	5	10	9	11	8	12	10	15	6	10	8	9
<i>Psephellus declinatus</i> (Bieb.) C. Koch	6	13	2	6	7	12	5	11	9	12	2	8	3	7	8	11	10	12	7	8	9	10	6	9
<i>Pseudoarabidopsis toxophylla</i> (Bieb.) N. Busch	6	14	6	11	9	13	14	18	6	11	3	6	8	12	8	12	3	12	11	17	7	11	8	9
<i>Psilurus incurvus</i> (Gouan) Schinz et Thell.	5	11	6	9	7	11	5	12	8	12	3	9	3	7	11	14	3	12	6	17	10	13	8	9
<i>Psoralea bituminosa</i> L.	6	14	4	8	7	11	5	11	4	9	3	8	4	8	11	13	8	11	7	13	9	12	6	9
<i>Ptarmica cartilaginea</i> (Ledeb.) Ledeb.	13	17	6	9	7	10	6	11	4	8	5	8	7	10	4	10	8	14	8	16	4	9	5	9
<i>Ptarmica salicifolia</i> (Bess.) Serg.	8	17	7	10	5	10	5	12	4	7	5	8	7	11									6	9
<i>Ptarmica vulgaris</i> DC.	10	17	6	9	3	7	5	11	4	8	5	8	7	10	3	11	1	17	6	11	5	11	5	9
<i>Pteridium aquilinum</i> (L.) Kuhn	8	14	3	6	3	7	1	8	2	6	1	7	3	7	5	17	7	23	1	17	6	15	5	8
<i>Pteridium tauricum</i> (C. Presl) V. Krecz.	8	13	2	6	7	11	4	10	9	11	3	7	4	7	10	12	9	13	8	12	9	11	5	8
<i>Ptilostemon echinocephalus</i> (Willd.) Greuter	3	9	2	4	9	12	5	13	10	13	1	3	3	6	11	12	9	11	8	10	9	10	8	9
<i>Puccinellia bilykiana</i> Klokov	6	16	9	11	11	14	10	17	4	7	1	7	4	7	9	11	10	12	10	11	9	8	8	9



<i>Puccinellia distans</i> (Jacq.) Parl.	6	16	9	11	11	13	9	15	4	8	1	7	3	9	4	13	5	18	3	12	3	13	8	9
<i>Puccinellia foeniculi</i> Bilyk	6	14	9	11	14	14	18	4	4	7	3	7	7	10	9	11	6	11	10	16	7	11	8	9
<i>Puccinellia gigantea</i> (Grossh.) Grossh.	6	18	9	11	14	14	18	3	7	7	1	7	3	9	7	12	5	12	10	17	6	10	8	9
<i>Pulicaria dysenterica</i> (L.) Bernh.	10	17	6	9	5	12	7	15	4	7	3	8	7	11	8	14	6	16	3	12	8	13	7	9
<i>Pulicaria uliginosa</i> Stev. ex DC.	9	18	7	10	3	7	7	12	4	7	5	9	8	11	8	14	3	10	11	17	7	13	6	9
<i>Pulicaria vulgaris</i> Gaertn.	9	18	7	10	3	7	5	10	4	7	5	10	7	10	6	13	7	15	3	12			7	9
<i>Pulmonaria angustifolia</i> L.	5	14	5	7	5	9	3	9	6	9	2	7	4	8	7	12	11	14	6	12	7	10	5	8
<i>Pulmonaria filarszkyana</i> Jav.	9	16	3	6	5	9	4	7	2	6	3	9	5	8	5	7	15	17	6	8	7	8	4	8
<i>Pulmonaria mollis</i> Wulf.ex Hornem.	8	14	4	6	7	11	5	8	5	9	3	9	5	8	6	12	10	14	6	15	3	10	4	8
<i>Pulmonaria obscura</i> Dumort.	8	15	4	6	7	11	5	8	5	9	5	10	5	8	5	11	4	12	2	12	6	11	2	6
<i>Pulmonaria officinalis</i> L.	9	15	4	6	7	9	5	9	5	9	4	9	5	8	6	11	10	14	5	12	6	10	3	7
<i>Pulsatilla alba</i> Reichenb.	9	14	6	9	3	6	1	4	1	3	2	5	4	7	6	8	14	19	6	7	7	9	7	9
<i>Pulsatilla grandis</i> Wend.	7	12	2	5	5	9	3	7	4	9	2	6	4	7	7	10	12	14	3	9	9	10	6	9
<i>Pulsatilla latifolia</i> Rupr.	7	12	2	7	5	9	3	9	4	10	2	6	4	7	5	11	9	14	7	16	5	10	5	9
<i>Pulsatilla nigricans</i> Storch	7	11	2	6	3	10	2	9	2	10	2	6	4	7	7	10	12	15	6	11	8	10	6	9
<i>Pulsatilla taurica</i> Juz.	5	11	2	6	5	11	4	11	9	13	2	5	4	7	8	10	10	13	7	9	9	10	6	9
<i>Pycreus flavescens</i> (L.) Reichenb.	10	17	9	11	5	11	4	13	7	10	3	9	3	7	6	16	7	15	1	17	7	15	7	9
<i>Pyracantha coccinea</i> (L.) M. Roem.	5	13	4	7	7	11	7	12	7	12	2	8	4	7	8	14	8	15	7	17	9	13	5	9
<i>Pyrethrum alpinum</i> (L.) Schrank	8	16	4	8	3	6	3	7	3	7	3	6	5	8	6	18	14	18	6	8	8	9	7	9
<i>Pyrethrum elusii</i> Fisch. ex Reichenb.	8	16	4	8	5	8	4	8	4	10	4	7	4	8	6	9	14	18	7	10	7	9	6	9
<i>Pyrethrum corymbosum</i> (L.) Scop.	6	14	5	8	7	11	4	11	7	11	3	7	4	7	6	12	11	14	2	15	6	12	5	9
<i>Pyrethrum macrophyllum</i> (Waldst. et Kit.) Willd.	7	16	5	8	5	11	7	10	7	10	5	8	4	7	7	12	12	14	6	11	9	11	5	8

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Pyrethrum parthenium</i> (L.) Smith	8	14	5	8	5	11	7	10	7	10	5	10	4	7	7	13	11	16	3	11	7	15	6	9
<i>Pyrola chlorantha</i> Sw.	9	16	4	6	3	8	2	6	3	9	2	6	5	8	4	11	11	14	5	15	4	11	1	5
<i>Pyrola media</i> Sw.	8	15	4	6	3	9	2	8	3	8	2	6	5	8	4	11	11	18	1	14	5	11	1	5
<i>Pyrola minor</i> L.	8	16	4	6	2	7	3	8	3	9	2	6	5	8	2	11	11	16	1	17	1	11	2	6
<i>Pyrola rotundifolia</i> L.	8	16	4	6	5	8	2	8	3	8	2	6	5	8	2	11	11	16	1	14	5	11	1	5
<i>Pyrus communis</i> L.	7	15	4	7	7	12	5	10	5	11	4	9	4	8	6	13	10	15	3	13	7	12	4	9
<i>Pyrus elaeagnifolia</i> Pall.	6	14	3	6	7	10	5	10	7	12	3	8	3	7	10	13	6	13	7	12	9	10	5	9
<i>Quercia hispanica</i> L.	3	9	2	5	8	11	7	12	8	11	1	6	6	9	11	14	1	10	9	16	11	13	8	9
<i>Quercus austriaca</i> Willd.	7	13	4	7	5	10	5	9	5	11	5	8	5	8	9	13	6	13	8	12	9	11	5	9
<i>Quercus borealis</i> Michx	8	15	3	9	5	9	4	11	3	9	3	9	5	8	8	14	12	17	6	14	9	13	4	9
<i>Quercus dalechampii</i> Ten.	5	15	5	9	5	10	4	10	6	10	2	7	3	6	7	11	12	15	2	10	9	12	5	9
<i>Quercus petraea</i> (Mattuschka) Liebl.	6	16	5	9	5	11	4	10	5	11	2	7	4	7	6	12	11	16	2	12	9	12	4	9
<i>Quercus polycarpa</i> Schur	5	15	5	9	5	9	4	9	5	11	2	6	4	7	11	12	12	15	7	10	10	11	5	9
<i>Quercus pubescens</i> Willd.	5	14	5	9	5	12	4	11	7	11	3	7	3	6	9	13	11	15	6	13	9	12	5	9
<i>Quercus robur</i> L.	8	16	3	9	5	9	3	10	5	11	3	9	5	8	6	12	10	16	2	16	5	12	4	9
<i>Radiola linooides</i> Roth	10	17	5	10	3	7	3	7	3	6	1	5	6	8	7	15	10	17	1	10	8	13	7	9
<i>Ranunculus acris</i> L.	8	18	1	7	5	12	4	12	4	9	3	9	5	11	4	13	11	16	2	14	5	12	6	9
<i>Ranunculus arvensis</i> L.	8	14	4	8	7	11	7	12	4	9	3	9	5	8	6	14	5	15	3	17	9	11	7	9
<i>Ranunculus auricomus</i> L.	9	17	2	7	5	11	5	9	5	9	4	10	6	10	4	11	11	16	3	13	5	11	3	8
<i>Ranunculus breyninus</i> Grantz	7	15	4	7	5	9	4	8	6	11	4	7	5	9					3	10	9	11		
<i>Ranunculus bulbosus</i> L.	5	13	4	9	7	10	7	13	8	11	1	6	5	7	6	14	11	17	1	11	8	13	7	9
<i>Ranunculus carpaticus</i> Herb.	9	15	5	9	5	9	1	5	4	8	2	6	4	7	3	6	15	18	5	7	7	8	4	9
<i>Ranunculus cassubicus</i> L.	9	17	2	7	5	11	4	9	4	9	3	9	5	11	4	12	9	14	5	14	6	10	3	6
<i>Ranunculus chius</i> D&C.	6	17	8	11	9	12	7	12	7	11	3	6	6	13	11	14	6	10	6	12	9	13	6	9

Ranunculus constantinopolitanus (DC.) D'Urv.	10	16	2	6	7	10	7	12	7	10	7	11	5	10	9	11	11	13	7	11	8	10	4	6
Ranunculus dissectus Bieb.	8	13	3	7	9	12	8	13	9	12	3	6	5	8	6	8	12	13	7	8	9	10	7	9
Ranunculus flammula L.	13	19	1	9	3	7	3	11	2	5	1	5	7	11	5	13	9	18	2	11	5	12	7	9
Ranunculus illyricus L.	5	13	4	9	7	11	6	10	9	10	2	8	5	7	7	12	10	13	6	14	7	11	7	9
Ranunculus lanuginosus L.	10	17	2	7	5	11	6	11	6	10	7	11	5	10	7	12	11	14	5	11	9	12	3	7
Ranunculus lingua L.	16	19	1	3	5	9	4	8	2	4	5	10	10	13	5	10	11	14	2	15	5	12	6	9
Ranunculus malinovskyi A. Jelen. ex Derviz-Sokolova	8	16	2	7	5	9	4	12	4	9	3	9	5	9	3	5	15	17	6	8	7	8	7	9
Ranunculus montanus Willd.	7	15	4	6	7	11	5	12	7	11	3	7	5	7	3	8	4	11	5	14	5	9	6	9
Ranunculus muricatus L.	8	16	7	11	9	11	6	11	7	11	3	7	7	11	9	15	2	15	3	16	11	15	7	9
Ranunculus neapolitanus Ten.	9	16	2	7	7	10	7	12	8	11	7	10	5	10	9	13	10	13	6	8	10	12	4	8
Ranunculus nemorosus DC.	9	16	4	6	4	9	4	8	3	8	7	10	5	10	7	12	11	16	4	10	9	12	4	8
Ranunculus ophioglossifolius Vill.	13	19	8	11	7	11	9	14	6	10	1	3	6	9	10	14	3	11	6	17	9	13	7	9
Ranunculus oreophilus Bieb.	7	15	4	7	7	11	5	12	8	11	2	8	4	9	6	12	12	17	7	13	7	10	7	9
Ranunculus oxyspermus Willd.	4	10	7	9	7	11	8	11	8	11	2	7	5	7	8	11	10	12	9	15	7	9	7	9
Ranunculus pavlii (A. Jelen. ex Derviz-Sokolova) Tzvelev	9	16	2	7	7	11	5	10	8	11	6	10	5	10	7	8	11	13	6	8	9	11	3	8
Ranunculus pedatus Waldst. et Kit.	3	16	3	7	7	11	7	14	9	12	3	7	5	9	6	12	11	13	6	15	6	10	7	9
Ranunculus platentifolius L.	8	17	2	7	5	8	3	10	5	6	5	8	5	10	5	8	15	20	2	7	8	9	4	8
Ranunculus polyanthemus L.	8	16	2	7	5	12	3	15	4	10	2	7	5	10	6	11	9	14	6	15	5	10	5	9
Ranunculus polyphyllus Waldst. et Kit.	20	22	9	11	7	11	3	8	3	7	2	6	13	15	5	9	8	13	9	17	3	9		
Ranunculus polyrhizos Stephan ex Willd.	2	11	8	11	10	13	10	16	8	11	2	6	5	8	8	11	5	12	10	17	7	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	RcI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Ranunculus repens</i> L.	13	19	8	11	7	11	3	15	4	7	3	11	7	11	3	14	10	18	1	17	1	13	5	9
<i>Ranunculus reptans</i> L.	13	19	4	9	3	7	5	10	2	5	1	5	7	11	4	9	9	20	1	17	2	10	8	9
<i>Ranunculus sardous</i> Crantz	10	18	7	11	5	10	6	10	5	9	2	6	6	10	7	12	11	16	2	11	9	12	6	9
<i>Ranunculus sceleratus</i> L.	10	20	1	9	7	11	3	11	4	8	7	11	7	12	5	14	4	18	2	14	1	13	6	9
<i>Ranunculus scythicus</i> Klolkov	5	12			7	12	6	11	5	6	2	8							10	13	7	10		
<i>Ranunculus stevenii</i> Andrz.	10	17	2	6	5	12	6	9	4	9	3	9	6	11	8	11	11	13	8	10	5	9	6	9
<i>Ranunculus thora</i> L.	9	16	5	10	7	11	4	9	6	11	2	5	5	9	5	8	14	18	5	7	8	11	5	9
<i>Ranunculus trachycarpus</i> Fisch. et C.A. Mey.	8	16	7	11	9	11	8	10	7	11	3	7	7	11	10	13	6	12	9	16	9	12	7	9
<i>Ranunculus zapalowiczii</i> Pacz.	6	14	4	6	7	11	5	11	9	11	3	6	5	7	8	9	12	13	7	9	8	9	7	9
<i>Raphanus odessanus</i> (Andrz.) Spreng.	6	11	7	11	9	13	12	16	2	7	1	3	3	7	8	14	10	15	3	8	11	13	8	9
<i>Raphanus raphanistrum</i> L.	6	12	6	10	3	11	4	16	4	9	3	9	6	9	5	14	11	16	1	11	7	12	7	9
<i>Rapistrum perenna</i> (L.) All.	5	11	6	10	8	12	8	12	7	11	4	9	5	8	8	11	10	14	7	11	8	11	7	9
<i>Rapistrum rugosum</i> (L.) All.	5	10	6	11	9	13	9	16	7	11	4	9	5	9	6	14	5	15	2	17	7	13	7	9
<i>Reseda inodora</i> Reichenb.	4	9	7	10	9	13	6	12	6	11	3	8	4	7	6	15	3	14	6	15	8	13	8	9
<i>Reseda lutea</i> L.	4	13	7	11	7	13	6	12	8	10	3	7	4	7	6	15	3	14	4	17	7	13	8	9
<i>Reseda luteola</i> L.	4	10	7	11	10	13	6	12	6	10	2	7	4	7	7	15	3	14	6	15	9	13	8	9
<i>Rhagadiolus stellatus</i> (L.) Gaertn.	5	13	4	8	7	11	7	12	9	11	3	7	4	7					6	12	10	13	6	9
<i>Rhamnus cathartica</i> L.	5	17	3	7	7	11	4	9	9	12	2	7	4	7	4	12	5	15	7	15	6	12	4	8
<i>Rhamnus tinctoria</i> Waldst. et Kit.	5	12	3	6	7	11	7	11	10	12	3	7	3	7					6	10	9	11	6	9
<i>Rhinanthus aestivalis</i> (N. Zing.) Schischk. et Serg	8	14	7	9	7	10	4	10	4	9	3	6	6	9	5	11	11	14	6	15	5	10	7	9
<i>Rhinanthus glacialis</i> Personnat	8	15			6	11					1	5			4	12	3	14	4	8	7	10	7	9
<i>Rhinanthus minor</i> L.	8	17	7	9	5	10	3	9	4	9	3	8	5	9	5	11	11	18	1	13	6	11	7	9

Rhinanthus patulus (Sterneck) Thell. et Schinz	8	15				7	10					4	9	4	7					5	8	9	11	7	9	
Rhinanthus serotinus (Schoenh.) Oborny	8	17	7		9	7	12	5	11	4	4	9	2	8	5	9	4	12	10	15	2	17	2	11	7	9
Rhinanthus vernalis (N. Zing.) Schischk. et Serg.	8	17	6	10	6	11		5	14	4	8	2	8	5	9	4	11	9	16	2	17	2	11	7	9	
Rhodiola rosea L.	8	15	3	6	3	8	3	7		8	12	3	6	3	6	2	12	6	15	1	17	1	11	7	9	
Rhodococcum vitis-idaea (L.) Avror.	6	17	3	5	1	8	1	8	1	5	1	7	6	10	1	11	11	16	1	17	1	11	1	8	8	
Rhododendron kotsehyi Simonk.	10	14	3	7	1	7	2	10	3	6	1	7	5	7	3	6	15	18	6	8	6	7	8	7	9	
Rhododendron luteum Sweet	8	16	2	6	1	8	3	8	3	5	3	6	7	10	8	13	5	13	6	6	9	9	11	4	9	
Rhus coriaria L.	7	13	3	6	7	12	5	11	10	12	2	8	3	7												
Rhynchospora alba Vahl	13	20	2	5	2	7	1	5	1	5	1	6	13	15	4	10	12	18	1	11	6	11	7	9	9	
Ribes carpaticum Schult.	8	15	3	7	4	7	3	7			3	7	3	7										5	9	9
Ribes nigrum L.	10	19	3	5	7	12	3	9	3	6	5	11	3	11	3	10	11	16	2	17	2	11	4	9	9	
Ribes rubrum L.	11	17	3	7	5	9	3	8	3	6	5	9	7	11	3	7	5	15	6	6	9	3	7	4	9	
Robinia pseudoacacia L.	5	16	4	10	5	12	5	10	5	9	5	10	3	8	8	14	11	15	5	10	9	12	5	9	9	
Roegneria canina (L.) Nevski	9	17	2	7	5	11	3	9	5	9	7	10	5	8	4	13	11	18	2	16	3	12	3	6	6	
Roegneria panormitana (Parl.) Nevski	8	14	5	9	5	10	4	9	3	6	2	5	4	7	11	15	6	10	7	11	10	13	5	9	9	
Roemeria hybrida (L.) DC.	3	10	3	9	8	11	7	10	7	11	2	5	3	7	10	14	1	11	6	17	7	13	7	9	9	
Rorippa amphibia (L.) Bess.	13	20	3	9	7	10	5	14	5	8	3	8	5	13	4	12	10	15	6	14	4	11	4	9	9	
Rorippa austriaca (Crantz) Bess.	8	19	5	10	6	11	6	17	5	9	2	9	7	11	7	12	6	11	1	17	5	12	7	9	9	
Rorippa brachycarpa (C. A. Mey.) Hayek	3	19	1	11	7	11	7	16	5	9	3	6	4	11	6	11	5	13	5	9	5	9	6	9	9	
Rorippa dogadovae Tzvelev	11	16	7	10	4	7	2	5	1	7	1	4	5	9	6	9	9	13	9	16	5	8	7	9	9	
Rorippa palustris (L.) Bess.	13	19	3	9	5	10	4	12	3	8	3	11	7	11	2	15	9	20	1	17	5	12	4	8	8	

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Rorippa prolifera</i> (Heuffel) Neifr.	8	18	1	9	6	10	5	11	5	9	4	9	5	8	8	11	11	13	9	11	8	10	5	9
<i>Rorippa prostrata</i> J. P. Bergeret (Schinz) et Thell.	13	18	5	9	5	10	5	10	5	9	6	9	7	11	8	12	3	12	6	11	5	11	6	9
<i>Rorippa pyrenaica</i> (Lam.) Reichenb.	8	14	3	7			6	8	5		3	6	5	8	7	13	10	15	4	12	9	12	7	9
<i>Rorippa sylvestris</i> (L.) Bess.	8	18	1	9	6	10	5	11	5	9	4	9	5	8	7	15	3	13	5	11	7	11	4	8
<i>Rosa agrestis</i> Savi	7	15	3	8	7	10	5	11	4	8	3	8	5	8	8	15	3	15	3	12	9	13	6	9
<i>Rosa arvensis</i> Huds.	8	15	3	8	7	11	5	11	4	8	3	8	5	8	7	13	11	16	2	12	9	11	5	9
<i>Rosa canina</i> L.	5	18	3	8	5	11	3	11	5	10	3	8	4	8	6	14	5	18	6	16	7	12	5	9
<i>Rosa caryophyllacea</i> Bess.	5	13	3	7	7	11	7	12	9	12	2	7	4	7	7	12	10	14	7	11	8	11	6	9
<i>Rosa centifolia</i> L.	6	16	4	7	5	12	6	12	7	11	3	7	4	8	3	10	10	14	7	10	4	9	6	9
<i>Rosa corymbifera</i> Borkh.	8	16	4	8	6	11	6	11	5	10	3	7	4	8	7	13	5	18	1	15	7	13	5	9
<i>Rosa dumalis</i> Bechst.	8	16	4	8	5	11	6	11	5	10	3	9	4	8	5	12	10	17	2	14	8	12	7	9
<i>Rosa elliptica</i> Tausch	5	13	4	8	7	11	7	12	7	11	3	8	4	7	7	12	12	14	6	10	9	11	7	9
<i>Rosa gallica</i> L.	6	15	3	7	6	12	7	12	7	11	3	7	4	8	8	13	8	13	7	12	9	13	6	9
<i>Rosa gorenkensis</i> Bess.	5	13	4	7	7	11	7	12	7	11	3	8	4	7	7	10	10	13	11	13	8	9	7	9
<i>Rosa jundzillii</i> Bess.	5	13	4	8	7	11	7	11	5	11	3	8	4	7	8	11	11	14	6	12	8	11	7	9
<i>Rosa livescens</i> Bess.	5	13	4	8	7	11	7	12	7	11	3	8	4	7	9	10	12	13	8	9	9	9	7	9
<i>Rosa majalis</i> Herrm.	8	16	4	9	5	11	5	12	5	12	3	8	4	8	4	10	9	15	5	15	3	10	5	9
<i>Rosa micrantha</i> Smith	7	15	4	8	5	11	5	11	7	11	3	8	4	8	7	15	9	16	2	12	9	13	6	9
<i>Rosa pendulina</i> L.	9	16	6	9	4	9	4	10	5	9	3	9	5	9	7	11	11	14	6	8	9	10	5	9
<i>Rosa pimpinellifolia</i> L.	5	13	3	7	8	11	6	12	9	11	3	8	4	7	7	11	5	17	3	14	5	11	6	9
<i>Rosa pomifera</i> Herrm.	6	15	5	9	5	11	5	10	5	9	3	7	4	7	8	12	10	18	2	12	9	12	6	9
<i>Rosa pygmaea</i> Bieb.	6	15	3	7	6	12	7	12	7	11	3	7	4	8	8	13	8	13	7	12	9	13	6	9
<i>Rosa rubiginosa</i> L.	6	13	3	8	8	11	6	12	7	11	3	7	4	7	6	14	10	16	2	12	9	13	6	9
<i>Rosa rubrifolia</i> Vill.	8	15	4	9	5	10	5	10	4	8	3	7	5	9	8	12	12	15	4	11	9	11	5	9

Rosa rugosa Thunb.	7	15	4	8	7	11	7	12	6	10	3	8	4	8	5	11	11	18	7	12	7	11	6	9
Rosa spinosissima L.	5	14	3	7	7	11	5	12	9	11	3	7	4	7	7	19	5	17	3	15	6	11	6	9
Rosa tomentosa Smith	5	16	4	8	7	11	7	11	8	11	3	8	4	8	7	13	10	17	1	11	8	11	6	9
Rosa tschatyrdagii Chrshan.	5	14	3	7	7	11	6	12	9	11	2	8	4	7	8	10	10	12	7	9	9	9	6	9
Rosa ucrainica Chrshan.	5	13	3	7	8	12	8	13	10	12	2	7	4	7	9	10	10	11	11	11	8	8	8	9
Rosa villosa L.	6	15	5	9	5	11	5	10	5	9	3	7	4	7	5	13	10	16	2	12	7	12	6	9
Rubia tinctorum L.	8	16	4	9	5	10	7	14	7	10	7	11	5	9	7	13	3	13	3	11			4	9
Rubus anatolicus (Focke) Focke ex Hausskn.	6	12	4	8	7	12	7	13	9	11	3	8	3	7	7	15	6	17	2	12	10	13	6	9
Rubus caesius L.	5	17	4	11	5	12	5	12	2	11	3	8	3	9	6	13	9	15	1	16	5	12	5	9
Rubus canescens DC.	5	13	4	8	7	12	7	12	9	11	3	8	3	7	8	13	7	14	4	15	9	13	7	9
Rubus crimaenus Juz.	5	13	4	8	7	12	7	13	8	11	3	8	3	7	9	11	10	12	7	9	9	10	5	9
Rubus discolor Weihe et Nees	6	12	4	9	7	12	7	13	8	11	3	8	3	7	7	15	6	17	2	12	10	13	7	9
Rubus hirtimimus Juz.	5	14	4	8	7	12	7	12	8	11	3	8	3	7	9	11	10	12	7	9	9	10	5	9
Rubus hirtus Waldst. et Kit.	9	15	4	8	5	9	5	10	6	10	4	10	4	8	8	12	11	14	4	11	9	11	4	9
Rubus idaeus L.	8	17	5	9	5	11	3	9	5	9	4	8	5	8	4	12	10	18	1	17	1	12	5	9
Rubus nessensis W. Hall.	8	17	5	9	5	9	2	9	2	9	2	8	5	8	5	9	13	18	7	11	7	10	5	9
Rubus plicatus Weihe et Nees	10	18	4	10	5	9			2	8	5	9	8	11	6	11	12	17	2	10	7	11	6	9
Rubus saxatilis L.	9	15	4	8	5	11	2	9	2	10	3	8	4	7	3	11	11	18	2	17	1	11	3	7
Rubus sulcatus Vest ex Tratt.	9	15	4	8	5	8	3	9	4	8	3	8	4	8	7	11	12	15	5	10	9	11	6	8
Rubus tauricus Schlecht. ex Juz.	6	14	4	8	7	12	7	12	6	9	3	8	3	7	9	11	10	12	7	9	9	10	6	9
Rudbeckia hirta L.	14	18	7	10					2	9	5	10	6	9	7	15	10	18	4	14	7	14	6	9
Rudbeckia laciniata L.	10	18	7	10	7	11			3	9	5	10	6	9	6	14	8	16	8	14	7	11	6	9
Rumex acetosa L.	8	19	5	9	5	9	3	9	2	6	3	10	7	10	2	13	3	18	1	17	1	12	6	9
Rumex acetosella L.	5	16	3	11	1	12	2	14	3	6	1	5	3	7	3	13	3	18	1	17	1	12	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Rumex alpinus</i> L.	9	17	3	7	5	10	3	10	2	6	7	11	4	11	5	7	14	18	3	7	8	9	7	9
<i>Rumex aquaticus</i> L.	11	21	3	9	7	11	3	11	3	7	5	10	8	12	3	12	5	18	5	17	1	10	6	9
<i>Rumex carpaticus</i> Zapal.	9	16	5	9	5	8	3	9	3	7	4	9	5	9	5	7	14	18	6	7	8	9	6	9
<i>Rumex confertus</i> Willd.	9	17	6	9	6	10	3	15	2	7	4	10	7	11	6	12	5	18	6	17	4	10	6	9
<i>Rumex conglomeratus</i> Murr.	10	17	6	9	5	11	5	11	2	7	6	10	7	11	7	13	5	18	1	17	8	13	6	9
<i>Rumex crispus</i> L.	7	18	6	9	5	12	5	11	3	7	5	10	7	10	4	12	3	18	4	17	4	10	6	9
<i>Rumex hydrolapathum</i> Huds.	13	20	4	9	5	11	3	12	2	6	5	10	8	13	7	12	7	18	2	13	6	11	6	9
<i>Rumex maritimus</i> L.	8	17	7	10	7	15	7	14	4	7	7	9	7	11	4	14	3	18	3	15	3	15	7	9
<i>Rumex sanguineus</i> L.	10	18	4	8	5	11	5	10	4	9	5	10	7	11	7	13	5	15	5	11	7	13	5	9
<i>Rumex scutatus</i> L.	8	15	3	6	3	7	2	5			1	6	3	7	4	5	15	18	5	11	9	11	7	9
<i>Rumex stenophyllus</i> Ledeb.	4	19	6	10	8	12	5	16	5	9	3	7	7	11	7	11	5	11	3	9	3	9	7	9
<i>Rumex sylvestris</i> (Lam.) Wallr.	8	15	4	8	5	10	5	10	5	9	6	10	5	9	6	13	7	18	5	13	6	12	6	8
<i>Rumex thyrsiflorus</i> Fingerh.	5	16	5	11	5	11	3	11	3	7	3	8	6	10	3	11	5	18	5	17	1	10	7	9
<i>Rumex ucrainicus</i> Fisch. ex Spreng.	9	18	7	11	5	11	3	15	3	7	1	6	5	10	7	10	6	14	5	16	3	9	8	9
<i>Rumia cirrhifolia</i> (Willd.) K.-Pol.	4	8	5	9	8	11	9	13	9	12	2	6	4	7	10	11	9	11	8	10	9	10	7	9
<i>Ruppia maritima</i> L.	19	23	1	3	10	14	11	16	2	5	2	5	13	15	7	13	1	13	3	15	9	13	6	8
<i>Ruscus hypoglossum</i> L.	9	15	2	5	8	10	5	9	7	10	3	10	6	8	6	13	9	12	5	9	9	12	3	6
<i>Ruscus ponticus</i> Woronow ex Grossh.	6	14	3	7	5	12	4	10	8	11	3	8	4	7	10	13	11	14	6	9	10	11	5	8
<i>Ruta divaricata</i> Ten.	5	12	3	7	9	12	9	13	8	12	3	7	3	7	11	14	6	11	7	12	9	12	8	9
<i>Sagina apetala</i> Ard.	9	15	3	7	4	7	3	8	4	7	3	8	5	9	7	14	7	16	3	14	9	13	7	9
<i>Sagina nodosa</i> (L.) Fenzl	10	18	1	9	7	12	3	9	6	9	3	8	6	11	4	9	12	18	1	10	3	12	5	9
<i>Sagina procumbens</i> L.	8	16	2	7	5	12	5	10	6	9	5	9	5	10	4	14	5	20	1	14	4	12	5	9
<i>Sagina saginoides</i> (L.) Karst.	10	16	2	6	1	7	2	7	1	5	2	5	8	11	2	6	14	18	1	12	1	8	6	9



Sagina subulata (Sw.) C. Presl	7	11	8	10	2	5	2	5	1	5	1	5	1	5	5	7	4	13	11	18	1	12	9	12	7	9
Sagittaria sagittifolia L.	16	22	3	9	5	11	7	12	2	7	4	10	10	13	4	12	3	12	3	12	7	11		6	9	9
Salicornia europea L.	9	19	10	11	12	15	17	19	3	9	3	11	8	12	3	15	3	15	3	15	1	17	1	13	8	9
Salix acutifolia Willd.	6	18	7	11	4	11	1	6	2	5	1	6	3	7	4	11	6	15	6	15	5	10		6	9	9
Salix alba L.	10	18	6	11	4	11	3	7	4	6	5	8	3	10	6	12	3	15	3	15	2	17	5	13	5	9
Salix alpina Scop.	8	15	3	6	9	11	6	9	9	11	1	6	6	9	3	5	14	16	14	16	6	7	8	9	7	9
Salix aurita L.	13	19	3	9	2	7	3	9	3	6	5	9	7	11	5	11	12	16	12	16	7	11	7	11	6	9
Salix caprea L.	8	17	4	7	5	11	3	8	5	10	3	9	4	8	3	11	10	18	10	18	1	17	1	11	4	9
Salix cinerea L.	13	20	3	7	5	9	3	9	3	7	7	9	8	12	4	12	11	14	11	14	5	12	5	10	4	9
Salix daphnoides Vill.	10	18	3	9	5	9	3	8	3	7	3	7	8	12	5	13	12	16	12	16	4	8	7	11	6	9
Salix elaeagnos Scop.	10	16	5	11	8	12	3	8	4	7	3	7	6	10	6	12	10	13	10	13	5	9	9	11	7	9
Salix fragilis L.	10	18	6	10	5	9	3	7	4	10	5	9	5	9	4	14	10	15	10	15	6	11	3	11	5	9
Salix herbacea L.	10	17	1	5	3	7	3	7	1	5	2	6	6	9	1	6	15	18	15	18	1	8	2	11	7	9
Salix lapponum L.	13	20	1	5	5	7	1	5	1	4	2	6	8	11	3	7	11	18	11	18	2	12	3	10	6	9
Salix myrsinifolia Salisb.	13	18	1	5	7	11	3	9	1	6	4	9	8	12	4	8	12	15	12	15	7	12	7	10	5	9
Salix myrtilloides L.	11	20	1	4	1	6	1	4	1	5	1	6	8	11	3	9	11	15	11	15	5	17	1	9	7	9
Salix pentandra L.	13	20	3	9	5	9	3	9	3	6	1	6	7	11	4	12	11	16	11	16	3	17	4	11	6	9
Salix phyllifolia L.	12	19	1	4	3	8	3	9	2	5	3	9	8	11	4	8	14	18	14	18	8	12	7	10	7	9
Salix purpurea L.	10	16	3	9	7	12	5	9	3	8	3	9	5	10	7	13	9	15	9	15	2	14	5	13	6	9
Salix reticulata L.	8	15	1	4	7		2	7	2	4	1	6	3	7	1	4	14	18	14	18	3	17	1	9	7	9
Salix retusa L.	8	15	1	4	7	11	4	9	7	9	3	7	3	7	6	8	15	18	15	18	5	7	8	10	7	9
Salix rosmarinifolia L.	8	18	7	10	5	11	2	9	2	7	1	6	3	10	5	10	9	14	9	14	5	9	4	12	6	9
Salix silesiaca Willd.	10	17	3	7	3	8	3	7	2	6	3	7	6	9	7	8	14	17	14	17	4	7	7	9	6	9
Salix starkeana Willd.	8	17	3	8	3	9	2	7	3	7	1	7	5	9	6	9	5	12	5	12	6	10	6	10	5	9
Salix triandra L.	13	19	3	9	7	11	3	9	3	6	3	9	7	11	4	12	6	16	6	16	3	17	1	12	6	9
Salix viminalis L.	11	18	5	11	7	11	3	9	2	5	3	9	3	8	4	14	10	15	10	15	3	11	3	11	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	OmI	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Salsola australis</i> R.Br.	4	10	7	11	6	15	10	17	7	12	1	5	4	7	8	15	1	11	10	17	8	10	8	9
<i>Salsola soda</i> L.	7	19	9	11	11	15	15	18	3	7	3	10	7	12	9	15	5	10	6	17	6	13	8	9
<i>Salsola tamariscina</i> Pall.	2	7	7	11	9	15	11	17	7	12	1	6	4	7	7	11	1	11	10	17	8	10	8	9
<i>Salsola tragus</i> L.	5	10	7	11	6	15	3	17	3	7	1	5	3	6	8	14	1	14	1	7	9	13	8	9
<i>Salvia aethiopsis</i> L.	4	10	3	9	7	12	7	15	8	11	5	9	4	7	8	13	3	11	6	17	8	12	7	9
<i>Salvia austriaca</i> Jacq.	5	11	4	7	7	12	6	12	8	10	3	8	4	7	8	11	9	12	7	11	8	9	7	9
<i>Salvia glutinosa</i> L.	9	15	4	6	5	11	5	9	8	11	6	10	5	8	7	13	12	4	6	10	8	12	3	7
<i>Salvia nemorosa</i> L.	5	14	5	9	5	12	7	14	7	10	2	8	3	7	8	12	6	14	5	17	6	10	6	9
<i>Salvia nutans</i> L.	5	10	4	8	7	11	6	12	9	13	2	8	3	7	6	11	8	14	7	11	8	10	7	9
<i>Salvia pratensis</i> L.	5	13	4	9	7	11	5	10	9	11	4	10	4	7	6	12	10	15	3	12	7	12	5	9
<i>Salvia scabiosifolia</i> Lam.	6	11	3	6	7	12	7	12	10	13	2	6	3	6	9	11	10	12	8	10	9	10	7	9
<i>Salvia sclarea</i> L.	4	11	4	8	5	11	6	12	9	11	3	9	4	7	9	13	5	10	3	8	7	11	7	9
<i>Salvia stepposa</i> Shost.	5	12	4	9	6	12	5	13	8	10	3	8	4	7	6	11	9	11	10	15	6	10	6	9
<i>Salvia tomentosa</i> Mill.	7	14	4	7	7	11	5	11	8	12	2	8	3	6	10	12	9	11	8	10	9	11	6	9
<i>Salvia verticillata</i> L.	5	13	6	9	6	12	6	12	8	13	3	8	3	7	5	13	5	15	2	15	6	11	6	9
<i>Salvinia natans</i> (L.) All.	19	22	3	11	5	11	4	11	4	7	5	10	11	15	7	17	8	14	6	17	7	11	6	9
<i>Sambucus ebulus</i> L.	8	15	5	10	5	11	5	9	4	8	5	11	5	8	7	13	8	15	3	12	7	13	5	9
<i>Sambucus nigra</i> L.	8	15	4	6	5	9	4	10	3	7	8	11	5	8	7	13	5	18	3	11	5	13	4	8
<i>Sambucus racemosa</i> L.	8	15	4	8	3	8	3	9	6	10	3	9	7	10	6	12	12	15	7	11	7	11	4	8
<i>Samolus valerandi</i> L.	10	18	7	10	5	12	10	15	7	9	3	7	7	11	7	15	6	15	2	17	9	15	7	9
<i>Sanicula europaea</i> L.	8	15	4	6	7	11	5	9	6	10	5	11	5	8	6	13	6	17	2	14	6	12	2	5
<i>Sanquisorba officinalis</i> L.	8	17	6	9	5	12	4	11	4	12	3	8	7	11	3	12	10	15	2	17	1	11	6	9
<i>Saponaria glutinosa</i> Bieb.	8	12	5	8	8	11	6	7	4	10	4	7	4	6	10	14	3	10	9	12	9	13	7	9
<i>Saponaria officinalis</i> L.	8	14	3	7	6	11	5	10	4	8	3	9	5	8	7	14	7	15	5	9	7	13	5	9
<i>Sarothamnus scoparius</i> (L.) Koch	8	13	5	9	2	7	3	7	2	6	1	6	3	7	7	12	12	17	1	11	9	12	6	9
<i>Satureja taurica</i> Velen.	4	10	3	6	9	11	9	12	11	13	3	6	3	7	9	11	5	13	3	9	9	10	8	9

Saussurea alpina (L.) DC.	8	16	3	6	5	10	3	7	7	7	11	3	7	3	7	3	7	12	18	5	9	2	11	7	9
Saussurea discolor (Willd.) DC.	7	15	3	7	5	10	3	7	6	10	3	7	3	7	4	7	11	18	6	10	5	9	6	9	9
Saussurea porcii Degen	11	19	3	7	3	8	3	8	6	12	5	10	6	12	5	8	14	18	6	8	7	9	7	9	9
Saussurea salsa (Pall.) Spreng.	9	16	7	10	10	13	11	14	3	8	4	8			6	11	11	17	5	12	3	9	8	9	9
Saxifraga adscendens L.	8	17	7	9	7	10	5	9	4	9	4	9	9	11	5	11	14	18	5	10	7	10	8	9	9
Saxifraga aizoides L.	10	17	2	6	6	9	3	8	7	9	2	7	9	13	2	5	16	18	1	8	5	11	7	9	9
Saxifraga androsacea L.	7	15	3	6	7	10	3	8	8	8	11	3	7	3	7	2	5	16	18	5	8	3	8	9	9
Saxifraga bryoides L.	8	15	3	8	3	7	2	7	3	7	1	5	3	7	4	6	15	18	5	8	3	8	8	9	9
Saxifraga bulbifera L.	6	15	4	7	7	11	5	10	3	7	3	7	3	7	10	14	10	13	9	12	8	10	6	9	9
Saxifraga carpatica Reichenb.	10	17	3	7	6	9	3	7	5	10	5	10	3	6	3	6	15	18	6	7	4	7	7	9	9
Saxifraga granulata L.	9	16	5	8	5	9	4	8	5	9	3	7	8	11	6	12	9	16	3	10	8	12	7	9	9
Saxifraga hirculus L.	11	20	1	4	3	7	3	7	2	5	1	7	11	15	1	9	10	14	1	17	1	11	7	9	9
Saxifraga irriqua Bieb.	9	15	2	5	9	12	5	10	10	12	2	9	5	8	7	8	12	13	7	8	7	8	4	7	9
Saxifraga luteo-viridis Schott et Kotschy	5	13	2	6	7	12	6	11	8	13	3	7	3	7	6	8	11	18	6	8	4	7	8	9	9
Saxifraga paniculata Mill.	5	13	2	5	7	11	5	10	9	11	3	6	4	7	4	7	16	18	2	8	6	10	7	9	9
Saxifraga stellaris L.	14	17	2	5	3	7	1	5	3	8	3	6	3	7	1	5	16	20	1	6	3	11	7	9	9
Saxifraga tridactylites L.	3	10	3	9	7	12	5	11	8	11	1	5	3	7	6	12	8	16	2	9	9	13	8	9	9
Scabiosa columbaria L.	5	14	5	7	7	11	6	11	7	11	3	7	4	7	7	12	11	15	6	15	8	11	7	9	9
Scabiosa micrantha Desf.	5	11	3	6	8	12	6	12	8	11	2	6	3	6	11	13	3	11	8	17	8	11	7	9	9
Scabiosa ochroleuca L.	5	13	4	9	4	11	5	10	5	11	3	8	3	7	7	11	10	14	5	17	4	10	6	9	9
Scabiosa ucrainica L.	5	10	6	9	5	11	7	9	3	6	1	7	3	6	9	11	10	12	8	13	7	10	7	9	9
Scandix pectenveris L.	6	13	6	9	7	11	7	12	7	12	3	7	4	7	7	14	5	16	3	17	7	13	7	9	9
Scariola vimenea (L.) F.W.Schmidt	5	12	5	9	7	11	7	12	7	12	3	7	3	7	11	14	9	14	2	11	9	13	6	9	9
Scheuchzeria palustris L.	14	20	1	5	3	7	1	5	1	5	3	6	14	15	4	10	11	16	2	15	1	10	7	9	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SIH	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Schivereckia podolica</i> Andrz. ex DC.	4	9	3	7	8	11	3	10	9	13	1	5	3	6	5	10	11	14	9	12	5	9	7	9
<i>Schoenoplectus americanus</i> (Pers.) Volkart	15	19	9	11	6	10	3	7	4	7	3	7	3	6	8	14	11	20	2	16	6	14	7	9
<i>Schoenoplectus lacustris</i> (L.) Palla	16	22	3	9	5	11	5	13	4	7	3	10	9	13	4	11	5	18	4	17	2	13	7	9
<i>Schoenoplectus mucronatus</i> (L.) Palla	16	19	7	9	9	12	12	14	5	8	4	9	8	11	10	14	3	15	1	17	7	13	7	9
<i>Schoenoplectus setaceus</i> (L.) Palla	11	18	7	9	5	9	7	12	3	7	2	7	8	11	10	16	3	15	1	12	6	15	6	9
<i>Schoenoplectus tabernaemontani</i> (C.Gmel.) Palla	16	20	8	11	7	12	8	15	4	7	5	9	9	12	4	13	9	15	2	17	2	13	7	9
<i>Schoenus ferrugineus</i> L.	11	18	5	9	5	11	4	9	7	10	1	5	8	11	5	12	12	14	5	8	7	10	8	9
<i>Schoenus nigricans</i> L.	14	18	2	5	8	12	6	14	7	10	5	9	8	10	7	15	8	16	1	12	9	15	8	9
<i>Scilla autumnalis</i> L.	3	9	3	6	7	12	8	12	8	12	2	8	4	7	9	14	6	15	6	13	9	12	7	9
<i>Scilla bifolia</i> L.	8	15	4	6	5	11	4	9	6	9	5	10	5	8	7	12	12	14	5	11	8	12	5	7
<i>Scilla sibirica</i> Haw.	9	16	4	6	7	10			6	9	6	8	5	8									5	7
<i>Scirpoides holoschoenus</i> (L.) Sojak	7	17	6	9	7	12	5	15	5	8	1	7	7	11	7	13	5	15	3	9	8	12	7	9
<i>Scirpus radicans</i> Schkuhr.	14	21	4	10	6	11	5	10	3	6	5	7	11	13	4	8	11	15	6	17	3	10	6	9
<i>Scirpus sylvaticus</i> L.	14	21	4	10	3	12	4	10	2	6	5	10	11	13	4	12	11	15	2	17	2	11	5	9
<i>Scleranthus annuus</i> L.	5	15	3	10	2	9	2	9	6	7	1	7	4	9	7	14	9	18	5	9	7	13	7	9
<i>Scleranthus perennis</i> L.	5	13	4	9	3	7	3	9	1	5	1	4	5	7	6	12	10	15	3	11	7	12	7	9
<i>Scleranthus polycarpus</i> L.	7	11	4	7	3	11	2	5	4	11	1	5	5	7	9	11	10	15	3	10	7	12	8	9
<i>Scleranthus syvaschicus</i> Kleop.	5	12	6	9	6	12	5	15	4	8	2	5	6	9	7	12	10	14	8	11	9	11	7	9
<i>Scleranthus uncinatus</i> Schur	7	12	4	7	3	7	2	6	3	6	1	5	4	7	9	12	14	18	3	9	9	14	8	9
<i>Sclerachloa dura</i> (L.) Beauv.	3	13	6	9	5	12	7	11	5	9	3	9	5	8	7	14	3	15	3	11	8	13	8	9
<i>Scleropoa rigida</i> (L.) Griseb.	5	13	6	9	7	11	5	12	5	9	3	8	4	7	8	15	6	15	3	10	10	13	8	9

<i>Scolochloa festuacea</i> (Willd.) Link	14	18	2	7	4	8	6	11	4	8	6	9	8	13	5	11	10	14	5	14	5	10	7	9
<i>Scopolia carniolica</i> Jacq.	8	12	4	6	7	12	7	10	6	9	7	11	5	8	8	11	11	13	6	10	9	10	3	7
<i>Scorzonera austriaca</i> Willd.	5	12	4	7	7	11	6	10	5	10	1	5	4	7	6	13	7	13	6	17	4	10	7	9
<i>Scorzonera crispa</i> Bieb.	5	13	2	5	7	13	5	12	10	13	3	8	3	6	7	9	6	13	7	15	6	9	7	9
<i>Scorzonera ensifolia</i> Bieb.	3	13	6	11	5	11	5	12	5	9	1	5	3	6	7	11	5	11	10	17	6	11	6	9
<i>Scorzonera hispanica</i> L.	5	13	3	7	7	11	5	12	6	11	3	6	4	7	7	14	10	14	6	13	7	10	7	9
<i>Scorzonera humilis</i> L.	8	15	4	8	5	9	4	9	7	9	2	5	4	7	7	10	11	15	7	11	7	11	6	9
<i>Scorzonera laciniata</i> L.	6	13	5	10	7	12	7	14	6	9	3	6	5	8	7	14	8	14	6	15	6	12	8	9
<i>Scorzonera mollis</i> Bieb.	6	13	5	9	7	12	7	12	7	10	3	6	4	8	8	11	8	11	6	17	6	10	8	9
<i>Scorzonera parviflora</i> Jacq.	10	19	9	11	5	14	11	15	6	9	3	10	6	9	7	13	8	13	3	9	5	10	7	9
<i>Scorzonera purpurea</i> L.	6	15	4	8	5	12	5	9	7	11	3	7	4	8	7	13	11	14	6	17	6	12	6	9
<i>Scorzonera rosea</i> Waldst. et Kit.	8	15	4	8	5	10	3	9	4	8	3	8	5	8	6	8	14	16	6	8	7	9	6	9
<i>Scorzonera stricta</i> Hornem.	4	12	3	6	7	12	6	12	7	12	3	8	3	7	7	10	7	12	6	15	6	11	8	9
<i>Scorzonera taurica</i> Bieb.	6	13	3	6	7	12	5	13	7	12	3	7	4	7	7	12	8	13	9	15	6	10	8	9
<i>Scrophularia bicolor</i> Smith	4	12	3	6	7	13	7	13	11	13	2	7	3	6	10	15	7	14	4	12	9	13	8	9
<i>Scrophularia cretacea</i> Fisch. ex Spreng.	4	12	3	7	7	13	6	12	12	13	2	8	3	7	9	10	6	9	10	12	8	9	8	9
<i>Scrophularia donezica</i> Kotov	3	10	3	7	5	11	6	12	8	11	2	7	3	6	9	10	10	11	10	11	8	9	8	9
<i>Scrophularia nodosa</i> L.	8	19	5	9	5	9	4	9	6	11	3	10	5	9	4	13	6	18	1	15	5	12	4	8
<i>Scrophularia scopoli</i> Hoppe ex Pers.	10	17	3	6	6	10	4	9	5	10	5	10	5	8	7	13	5	14	4	11	7	11	5	7
<i>Scrophularia umbrosa</i> Dumort.	11	19	5	9	7	11	5	10	4	7	5	10	7	11	7	11	5	14	3	15	6	10	5	7
<i>Scrophularia vernalis</i> L.	11	15	4	7	5	11	6	11	8	11	5	9	5	8	7	12	10	14	5	11	7	12	4	8
<i>Scutellaria albida</i> L.	6	13	3	6	7	12	7	12	10	13	3	8	4	7	11	14	9	11	6	11	10	12	6	9
<i>Scutellaria altissima</i> L.	8	15	4	6	7	10	5	10	8	10	5	8	5	8	8	11	10	13	8	12	7	11	4	7

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	Knl	KnA	CrI	CrA	LcI	LcA
<i>Scutellaria cretica</i> Juz.	5	12	3	6	7	13	7	12	11	13	2	6	3	7	8	10	10	12	10	11	8	8	8	9
<i>Scutellaria galericulata</i> L.	11	19	7	9	5	9	3	9	4	8	4	10	8	13	3	13	10	16	1	16	2	11	5	9
<i>Scutellaria hastifolia</i> L.	9	18	7	9	5	9	3	9	4	9	5	10	7	11	6	12	8	14	5	17	6	11	4	8
<i>Scutellaria orientalis</i> L.	4	12	3	6	7	13	7	12	10	13	2	8	3	7	11	14	9	13	8	13	9	12	8	9
<i>Scutellaria verna</i> Bess.	5	13	3	6	7	12	7	12	11	13	3	7	3	7	8	9	11	13	9	11	8	9	8	9
<i>Secale sylvestre</i> Host	2	11	9	11	5	12	3	16	2	7	1	6	3	6	7	12	5	13	9	17	6	11	7	9
<i>Sedum acre</i> L.	5	12	9	11	5	12	3	13	2	10	1	6	3	6	4	13	10	18	1	13	6	12	6	9
<i>Sedum album</i> L.	5	15	2	10	7	11	5	12	9	13	1	4	3	7	6	15	9	15	2	15	9	13	8	9
<i>Sedum alpestre</i> Vill.	9	15	2	9	4	7	3	8	3	7	1	5	4	7	6	9	12	18	3	8	7	11	7	9
<i>Sedum annuum</i> L.	5	13	2	9	4	7	5	10	5	9	1	4	4	7	4	6	14	18	1	7	6	10	8	9
<i>Sedum atratum</i> L.	8	15	2	9	8	11							4	7	6	9							8	9
<i>Sedum borissovae</i> Balk.	5	10	2	9	4	7	3	9	3	7	1	4	4	7	9	10	10	11	10	11	8	9	7	9
<i>Sedum carpaticum</i> G.Reuss	8	17	2	9	5	9	3	7	6	9	2	6	4	9	6	8	14	18	6	8	7	9	5	9
<i>Sedum hispanicum</i> L.	3	13	2	9	7	12	6	12	9	13	1	8	3	7	8	13	8	14	6	11	7	10	7	9
<i>Sedum pallidum</i> Bieb.	3	15	2	9	7	12	6	12	10	13	1	8	4	9	10	13	5	12	7	11	7	10	7	9
<i>Sedum purpureum</i> (L.) Schult.	5	16	2	9	6	11	3	13	5	11	1	7	4	8	4	11	3	18	2	17	1	12	6	9
<i>Sedum reflexum</i> L.	5	10	2	9	3	7			3	9	1	5	3	7	7	12	11	15	3	11	9	12	7	9
<i>Sedum rubens</i> L.	3	9	2	9	9	11	7	12	7	11	1	5	3	6	10	14								
<i>Sedum ruprechtii</i> (Jalas) Omelcz.	7	13	6	10	7	11	6	12	2	12	3	8	3	6	7	10	10	14	2	17	8	11	6	9
<i>Sedum sexangulare</i> L.	5	15	6	10	7	11	4	9	2	7	1	5	3	6	6	10	12	14	1	13	9	12	7	9
<i>Sedum telephium</i> L.	8	13	6	10	5	11	5	10	3	9	3	8	3	6	4	9	11	18	2	17	1	12	6	9
<i>Selaginella helvetica</i> (L.) Spring	9	17	1	4	7	11	2	8	7	9	4	7	7	10	7	10	15	18	6	17	4	10	4	7
<i>Selaginella selaginoides</i> (L.) Link	8	16	1	6	5	11	3	8	6	11	4	7	5	8	4	8	13	20	1	8	3	11	5	9
<i>Selinum carvifolia</i> (L.) L.	10	18	4	9	5	9	3	7	3	7	1	6	4	11	4	11	12	18	3	14	6	12	6	9

Sempervivum montanum L. s. l.	5	13	4	7	1	7	3	7	3	8	1	4	3	6	2	6	16	18	5	7	8	9	7	9
Sempervivum ruthenicum Schnittsp. et C.B. Lehm.	8	12	3	6	2	6	4	9	2	7	1	6	3	6	7	10	7	11	7	12	6	10	6	9
Senecio arcticus Rupr.	14	19	3	6	3	5	3	6	2	6	5	9	8	12	1	9	11	18	2	17	1	10	7	9
Senecio besseranus Minder.	5	13	4	8	7	11	7	11	7	10	7	8			7	9	12	14	7	9	8	9	7	9
Senecio borysthenicus (DC.) Andrz.	5	13	7	9	5	11	5	10	4	8	1	8	3	7	7	11	10	12	8	11	8	9	7	9
Senecio carpathicus Herbich	7	15	4	8	3	8	3	9	5	9	6	9	3	7	3	5	14	16	5	7	7	8	7	9
Senecio cineraria DC.	6	15	9	11	10	14	13	17	3	9	1	5	3	7	8	14	10	15	4	8	10	12	8	9
Senecio czernjaevii Minder.	7	11	4	9	7	11	6	10	5	9	2	7	4	8	6	9	11	14	6	14	5	9	6	9
Senecio erraticus Bertol.	12	18	4	8	7	10	5	8	6	8	5	9	8	11	7	14	9	15	2	8	9	13	5	9
Senecio erucifolius L.	6	13	4	9	7	11	5	14	6	9	3	7	5	9	5	11	6	15	4	17	3	12	7	9
Senecio fluviatilis Wallr.	14	18	3	9	6	11	4	9	4	8	7	10	8	12	6	11	10	16	5	11	4	11	4	9
Senecio fuchsii C. C. Gmel.	8	16	4	8	5	9	4	9	4	8	5	10	6	10	7	12	11	16	6	12	6	11	4	9
Senecio grandidentatus Ledeb.	5	12	4	9	7	12	8	15	6	10	3	8	5	9	7	11	8	13	8	15	6	10	7	9
Senecio jacobaea L.	5	16	4	9	5	11	3	12	2	10	3	8	4	7	5	11	10	18	1	17	4	12	6	9
Senecio jaílícola Juz.	6	13	3	6	7	13	5	12	9	11	2	8	3	7	7	8	12	13	7	8	7	9	7	9
Senecio nemorensis L.	9	15	3	7	5	9	3	8	8	10	5	9	5	8	3	10	13	16	5	9	4	10	5	9
Senecio paludosus L.	14	20	3	9	5	10	5	10	4	9	4	9	8	12	6	11	11	15	6	9	4	10	6	9
Senecio paucifolius S. G. Gmel.	10	16	7	9	8	11	9	15	5	10	3	7	6	10	7	11	8	12	9	16	6	9	7	9
Senecio schvetzovii Korsh.	8	14	6	9	8	11	5	15	6	11	3	9	4	9	7	9	9	14	8	14	5	9	7	9
Senecio subalpinus Koch	10	17	3	7	5	9	4	7	8	10	6	10	5	8	3	7	14	16	6	8	6	7	5	9
Senecio sylvaticus L.	8	15	5	10	3	7	4	9	5	12	6	10	8	9	6	12	12	16	6	11	8	12	7	9
Senecio tataricus Less.	13	18	6	9	7	11	5	11	3	8	3	9	6	10	6	10	9	14	8	15	6	10	5	9
Senecio tauricus Konechn.	6	13	3	6	7	13	5	12	9	12	2	8	3	7	7	8	12	13	7	8	7	9	7	9
Senecio umbrosus Waldst. et Kit.	10	17	4	9	5	9	4	7	8	12	3	8	7	10	7	12	11	14	8	14	5	12	5	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Senecio vernalis</i> Waldst. et Kit.	5	13	5	11	6	9	6	12	2	9	3	8	4	8	6	12	7	14	4	13	6	13	6	9
<i>Senecio viscosus</i> L.	6	13	9	11	3	7	4	9	3	7	3	8	3	6	6	10	12	15	6	10	8	12	7	9
<i>Senecio vulgaris</i> L.	5	15	9	11	5	9	3	10	4	7	4	10	4	7	2	13	8	18	1	17	3	12	5	9
<i>Serratula bractefolia</i> (Iljin ex Grossh.) Stank.	5	12	4	7	7	12	6	11	9	13	2	8	4	7	9	11	10	12	9	13	6	10	7	9
<i>Serratula coronata</i> L.	8	15	4	9	6	12	5	14	6	10	3	8	4	7	6	14	7	15	6	17	3	9	6	9
<i>Serratula heterophylla</i> (L.) Desf.	8	15	6	8	7	12	5	14	6	10	3	7	6	8	6	12	10	13	9	17	6	9	6	9
<i>Serratula tanaitica</i> P. Smirn.	6	12	3	6	7	12	6	12	11	13	3	6	4	7	8	10	10	11	11	13	7	8	8	9
<i>Serratula tinctoria</i> L.	8	17	4	9	7	11	5	10	5	11	3	8	4	7	6	11	11	15	7	12	6	9	6	9
<i>Serratula xeranthemoides</i> Bieb.	5	12	4	8	7	11	6	11	7	12	2	8	4	7	8	11	10	12	8	12	8	10	7	9
<i>Seseli annuum</i> L.	3	13	5	9	7	12	5	9	4	9	1	5	5	8	6	12	11	15	6	12	6	11	6	9
<i>Seseli campestre</i> Bess.	5	13	5	9	7	11	6	12	6	11	3	7	3	7	8	11	9	12	6	13	6	10	7	9
<i>Seseli dichotomum</i> Pall. ex Bieb.	6	13	2	5	7	12	5	11	11	13	2	6	3	6	9	11	9	12	7	9	9	10	8	9
<i>Seseli gummiferum</i> Pall. ex Smith	4	13	2	5	7	12	5	12	11	13	2	8	3	6	9	11	9	12	7	9	9	10	8	9
<i>Seseli hippomarathrum</i> Jacq.	3	10	6	8	8	12	5	12	7	11	1	5	3	7	7	11	8	14	6	9	9	10	8	9
<i>Seseli lehmannii</i> Degen	5	13	2	5	7	12	5	12	11	13	2	6	3	6	8	9	10	12	7	8	9	9	8	9
<i>Seseli tortuosum</i> L.	7	11	7	9	7	11	6	11	4	9	3	8	3	6	8	12	8	12	6	11	9	9	7	9
<i>Seseli varium</i> Trev.	5	10	3	6	7	11	5	11	5	10	1	5	3	7	8	11	10	13	9	12	8	10	7	9
<i>Sesleria coerulans</i> Friv.	8	16	6	9	3	8	3	7	3	9	2	7	3	7	4	6	14	16	6	8	6	9	7	9
<i>Sesleria heuferiana</i> Schur	8	13	5	8	7	11	5	11	8	12	3	6	4	6	8	9	11	13	8	10	9	9	6	9
<i>Setaria glauca</i> (L.) Beauv.	7	13	7	11	5	8	5	11	2	8	4	9	3	7	6	16	3	18	2	14	4	15	7	9
<i>Setaria verticillata</i> (L.) Beauv.	5	16	7	11	5	8	5	11	7	10	3	9	3	7	8	14	3	16	3	17	4	14	6	9
<i>Setaria viridis</i> (L.) Beauv.	8	16	6	9	5	9	6	10	2	8	5	10	3	7	5	15	8	18	2	12	5	13	7	9



Sherardia arvensis L.	5	15	6	9	7	11	5	10	7	9	3	9	4	7	5	14	8	16	7	16	8	13	6	9
Sideritis comosa (Rochel ex Benth.) Stank.	5	12	4	8	7	12	6	12	9	12	1	8	3	7	9	14	5	12	6	13	8	12	8	9
Sideritis montana L.	3	11	4	8	5	11	6	10	9	12	5	9	3	7	7	13	7	14	6	17	9	13	8	9
Sideritis taurica Steph. et Willd.	5	14	3	6	7	13	5	11	11	13	1	8	4	7	8	11	10	13	7	9	9	10	8	9
Sieglingia decumbens (L.) Bernh.	7	15	5	8	2	7	3	12	6	11	3	8	6	9	5	9	12	18	1	10	7	12	6	9
Siella erecta (Huds.) M. Pimen.	15	19	7	9	9	12	7	10	4	7	7	9	9	13	4	11	9	15	2	14	7	11	7	9
Stieversia montana (L.) R. Br.	9	16	4	7	3	7	3	6	4	9	3	6	6	10	5	7	10	18	5	7	7	8	7	9
Silaum silaus (L.) Schinz et Thell.	10	17	7	9	6	12	6	14	5	8	1	5	8	11	7	12	10	14	3	9	9	11	7	9
Silene armeria L.	8	13	3	7	3	8	4	8	9	11	1	5	5	8	9	14	9	15	6	15	5	10	7	9
Silene chlorantha (Willd.) Ehrh.	5	12	4	11	7	12	4	11	9	12	2	8	3	7	6	10	9	14	6	15	5	10	6	9
Silene commutata Guss.	5	13	4	9	2	15	5	13	9	12	1	8	5	7	11	14	8	12	10	17	9	12	6	9
Silene coringifolia Andrz.	7	12	5	8	7	10	5	9	6	11	3	6	5	8	8	11	10	12	9	14	6	10	7	9
Silene cretacea Fisch. ex Spreng.	4	11	3	10	10	12	5	13	11	13	1	4	4	8	8	10	10	12	11	13	7	9	8	9
Silene crispata Steven	5	11	2	5	7	10	1	9	7	11	1	4	3	7	11	12	9	11	8	10	9	11	7	9
Silene dichotoma Ehrh.	6	14	3	8	7	11	6	11	3	8	5	9	5	7	6	12	10	15	5	12	7	11	7	9
Silene dubia Herbich	9	14	2	4	6	9	2	6	1	5	6	8	4	7	6	8	7	10	6	7	8	9	4	7
Silene gallica L.	8	13	5	7	6	9	5	7	5	8	3	7	5	8	7	14	7	16	2	17	7	13	7	9
Silene hypanica Klokov	5	11	3	7	3	6	1	4	1	4	3	6	5	10	8	10	10	11	10	11	8	9	7	9
Silene italica (L.) Pers.	6	12	3	6	8	11	6	9	9	11	4	6	5	7	7	14	7	13	6	17	11	13	6	9
Silene jaiensis N. Rubtz.	6	12	1	4	9	11	4	6	10	13	3	5	7	9	7	8	12	13	7	7	8	9	6	9
Silene jundzillii Zapal.	6	12	3	6	8	11	6	9	9	11	4	6	5	7	6	8	15	17	6	8	6	8	6	8
Silene lithuanica Zapal.	7	12	3	6	2	7	1	5	3	7	1	4	3	6	7	8	12	14	8	10	7	9	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Silene multiflora</i> (Waldst. et Kit.) Pers.	7	14	3	7	7	12	9	16	7	10	3	8	5	8	7	10	9	13	10	15	5	10	8	9
<i>Silene nemoralis</i> Waldst. et Kit.	7	15	3	7	7	10	6	10	8	11	4	6	5	9	8	12	12	14	8	10	8	11	6	8
<i>Silene nutans</i> L.	6	13	3	8	5	11	3	9	5	11	1	8	5	7	5	13	8	14	4	15	3	12	6	9
<i>Silene pendula</i> L.															9	14	11	14	6	10	7	12	6	9
<i>Silene procumbens</i> Murr.	7	15	9	11	4	7	3	7	4	7	1	4	3	5	6	11	9	11	12	16	5	9	7	9
<i>Silene sibirica</i> (L.) Pers.	7	12	4	8	7	12	11	16	8	11	3	6	7	10	7	11	8	12	5	9	5	9	7	9
<i>Silene subconica</i> Friv.	5	10	5	9	3	12	8	14	5	11	1	6	3	7	9	12	8	12	6	12	9	13	7	9
<i>Silene supina</i> Bieb.	4	12	4	10	4	11	6	13	2	12	1	6	4	7	8	12	10	14	9	11	9	10	8	9
<i>Silene syreitschikovii</i> P. Smirn.	3	10	2	4	4	11	6	13	2	12	1	3	5	7	11	12	10	10	9	10	9	10	8	9
<i>Silene sytnikii</i> Krytzka, Novosad et Protopopova	5	12	4	11	7	12	4	11	2	7	2	8	3	7	6	10	9	14	6	15	5	10	8	9
<i>Silene syvaschica</i> Kleopow	9	14	8	11	8	12	13	16	4	8	1	6	6	8	10	11	10	10	9	11	8	9	8	9
<i>Silene tatarica</i> (L.) Pers.	6	12	4	9	5	10	6	11	5	9	3	7	5	7	5	10	10	15	7	14	6	10	6	9
<i>Silene ucrainica</i> Klokov	6	10	6	8	7	11	6	11	6	11	3	8	5	6	9	10	3	12	9	16	8	11	8	9
<i>Silene viridiflora</i> L.	7	13	3	7	7	10	4	8	7	9	5	7	5	7	9	12	10	13	7	11	9	13	5	8
<i>Silene vulgaris</i> (Moench) Garcke	8	14	3	7	5	12	4	12	4	10	3	8	3	8	6	14	2	20	1	17	1	12	6	9
<i>Sinapis alba</i> L.	7	11	5	8	6	10	5	10	6	10	5	8	5	8	10	14	1	14	8	17	7	13	7	9
<i>Sinapis arvensis</i> L.	3	15	3	10	6	10	5	10	7	10	5	9	3	9	6	14	8	20	2	12	4	14	7	9
<i>Sinapis dissecta</i> Lag.	7	11	5	8	6	10	5	10	6	10	5	8	5	8	6	14	6	13	8	14	6	13	7	9
<i>Sisymbrium altissimum</i> L.	5	13	4	9	5	11	5	13	6	10	1	7	5	7	5	13	3	14	3	17	6	12	7	9
<i>Sisymbrium austriacum</i> Jacq.	6	10	5	8	7	11	3	7	7	11	3	9	3	7	8	14	10	14	6	12	9	12	6	9
<i>Sisymbrium confertum</i> Stev. ex Turcz.	3	8	8	11	8	12	4	10	6	10	1	4	3	6	11	12	9	10	9	11	10	12	7	9
<i>Sisymbrium irio</i> L.	6	15	4	9	7	10	7	11	6	10	3	6	5	7	7	15	1	14	6	17	9	13	7	9

<i>Sisymbrium loeselii</i> V.	4	12	3	10	4	10	3	13	3	11	3	7	5	7	5	12	3	15	5	11	4	6	9			
<i>Sisymbrium officinale</i> (L.) Scop.	6	16	3	9	6	10	5	11	6	10	4	9	5	8	5	8	4	11	3	15	3	11	1	13	6	9
<i>Sisymbrium orientale</i> L.	4	11	3	10	8	12	7	10	7	11	6	9	5	8	5	8	14	3	14	4	10	9	13	7	9	
<i>Sisymbrium polymorphum</i> (Murr.) Roth	3	10	6	11	6	11	6	15	8	12	2	7	3	6	7	11	5	13	1	10	6	9	7	9	9	
<i>Sisymbrium strictissimum</i> L.	9	15	3	7	8	11	6	11	7	11	6	11	5	9	6	11	3	13	4	11	5	11	4	7	7	
<i>Sisymbrium wolgensse</i> Bieb. ex Fourn.	5	11	3	7	5	11	5	10	6	10	1	7	5	7	6	11	9	14	12	16	6	10	7	9	9	
<i>Sisyrinchium montanum</i> Greene	8	17	5	9	5	9	5	9	4	7	4	6	5	9	6	11	14	20	4	16	6	11	7	9	9	
<i>Stium latifolium</i> L.	13	21	4	9	8	12	7	11	3	8	5	10	10	13	4	12	7	15	3	15	5	12	6	9	9	
<i>Stium sisaroides</i> DC.	14	19	6	9	7	11	8	14	5	10	5	10	10	13	6	12	8	11	3	9	5	10	6	9	9	
<i>Smyrniolum perfoliatum</i> L.	7	16	4	6	7	11	4	10	5	10	7	11	5	8	11	14	6	12	7	15	9	13	4	8	8	
<i>Sobolewsikia sibirica</i> (Willd.) P.W. Ball	4	9	7	11	8	11	3	7	10	13	1	3	3	6	11	12	9	10	8	9	10	11	8	9	9	
<i>Solanum dulcamara</i> L.	11	21	3	10	5	11	5	10	3	8	5	9	8	13	5	12	9	16	2	15	3	13	5	9	9	
<i>Solanum nigrum</i> L.	8	15	5	8	5	11	5	10	4	5	6	10	5	8	6	14	5	16	3	17	6	13	6	9	9	
<i>Soldanella hungarica</i> Simonk.	8	17	3	8	5	8	2	9	3	9	1	7	6	8	3	7	16	18	6	8	8	9	2	9	9	
<i>Soldanella montana</i> Willd.	9	17	4	8	1	6	3	9	1	5	1	7	6	8	3	7	16	18	6	8	8	9	5	9	9	
<i>Solidago alpestris</i> Waldst. et Kit. ex Willd.	11	16	3	7	3	7	2	8	4	5	2	7	6	8	3	7	14	16	6	8	8	9	7	9	9	
<i>Solidago canadensis</i> L.	8	17	6	10	5	9	2	7	4	10	5	9	4	8	6	12	11	16	5	9	8	12	6	9	9	
<i>Solidago virgaurea</i> L.	8	15	4	8	3	9	1	12	3	11	2	7	4	7	4	13	10	18	1	14	5	12	5	9	9	
<i>Sonchus arvensis</i> L.	8	17	5	9	5	11	5	16	3	9	5	8	5	10	3	16	9	18	3	15	1	15	6	9	9	
<i>Sonchus asper</i> (L.) Hill	5	16	4	8	5	12	6	11	3	8	5	10	5	8	5	15	3	18	3	15	1	13	6	9	9	
<i>Sonchus oleraceus</i> L.	8	15	4	8	7	11	5	11	3	8	5	10	5	8	5	16	3	18	2	15	1	13	6	9	9	
<i>Sonchus palustris</i> L.	13	19	5	9	7	11	5	16	3	6	5	10	8	11	6	13	5	18	3	12	5	13	6	9	9	
<i>Sorbus aria</i> (L.) Crantz.	5	13	4	7	5	11	5	12			2	7	5	9	7	11	9	17	4	10	9	12	5	8	8	

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Sorbus aucuparia</i> L.	8	17	4	7	3	7	3	9	2	7	2	8	4	8	3	13	10	20	1	13	5	11	4	8
<i>Sorbus domestica</i> L.	5	13	4	7	7	11	5	11	6	9	1	7	4	8	9	13	11	14	6	12	9	12	3	6
<i>Sorbus graeca</i> (Spach) Lodd. ex Schauer	8	14	3	6	7	11	5	10	7	11	3	6	4	7	8	10	6	13	8	14	8	11	6	9
<i>Sorbus torminalis</i> (L.) Crantz.	8	13	4	6	7	11	4	9	5	10	3	7	5	9	9	14	5	15	4	13	9	12	4	8
<i>Sparganium angustifolium</i> Michx.	17	21	1	4	3	7	2	6	1	3	3	7	13	15	2	8	13	18	1	15	4	11	7	9
<i>Sparganium emersum</i> Rehm.	17	21	3	5	7	11	5	9	2	4	7	10	12	14	3	15	3	18	5	12	1	13	7	9
<i>Sparganium erectum</i> L.	16	19	3	10	6	12	7	11	2	4	3	9	12	14	6	11	9	18	6	12	1	13	7	9
<i>Sparganium minimum</i> Wallr.	17	21	1	4	3	7	3	7	1	3	1	7	13	15	3	10	11	18	1	17	1	11	7	9
<i>Sparganium neglectum</i> Beeby	17	21	3	5	5	10	5	12	2	4	5	10	12	14	7	13	9	18	4	12	1	13	7	9
<i>Spergula arvensis</i> L.	8	15	5	9	3	6	3	7	3	5	4	9	4	7	5	14	8	20	4	12	4	13	6	9
<i>Spergula maxima</i> Weihe	8	15	5	9	3	6	3	7	3	5	4	9	4	7	5	14	8	20	4	12	4	13	7	9
<i>Spergula morisonii</i> Boreau	5	12	7	9	3	6	2	6	2	5	1	5	4	7	6	11	12	15	4	8	8	11	8	9
<i>Spergula sativa</i> Boenn.	10	16	5	9	3	6	3	7	3	5	4	9	4	7	5	14	8	20	4	12	4	13	7	9
<i>Spergularia marina</i> (L.) J. et Griseb.	9	17	6	9	10	14	12	18	7	9	1	6	5	11	5	15	5	18	1	17	1	13	8	9
<i>Spergularia media</i> (L.) C. Presl	10	16	5	9	10	12	14	18	6	10	3	8	6	10	6	15	5	18	1	17	6	14	7	9
<i>Spergularia rubra</i> (L.) J. et C. Presl	7	14	6	9	5	9	6	11	4	7	3	7	5	9	4	9	5	16	5	10	3	9	7	9
<i>Spiraea crenata</i> L.	3	12	2	6	7	13	9	11	9	12	2	6	4	7	8	11	9	12	7	15	6	9	7	9
<i>Spiraea hypericifolia</i> L.	5	13	4	8	7	11	6	10	8	11	3	8	4	7	7	11	6	12	10	17	4	9	6	9
<i>Spiraea litwinowii</i> Dobroc.	6	12	4	8	7	11	6	10	5	10	3	8	4	7	8	10	10	12	10	13	8	10	6	9
<i>Spiraea media</i> Franz Schmidt	7	13	4	9	4	8	3	9	5	10	4	9	4	7	5	9	10	13	7	11	3	10	6	9
<i>Spiraea salicifolia</i> L.	8	17	4	9	5	11	4	9	5	9	5	9	5	8	2	10	11	14	6	11	8	11	6	9

<i>Spiranthes spiralis</i> (L.) Chevall.	6	15	4	6	7	9	3	6	3	5	2	5	6	9	7	14	10	15	2	12	8	13	7	9
<i>Spirodela polyrrhiza</i> (L.) Schleid.	17	23			5	12	6	13	8	10	5	10											5	8
<i>Stachys alpina</i> L.	8	15	3	5	5	9	4	10	3	7	5	9	5	8	6	10	12	17	5	9	7	10	2	6
<i>Stachys angustifolia</i> Bieb.	5	12	3	6	5	11	7	13	4	12	3	7	3	6	9	12	10	12	9	12	9	11	8	9
<i>Stachys annua</i> (L.) L.	6	13	4	8	7	12	6	11	4	9	3	7	5	7	6	12	11	14	3	13	6	12	7	9
<i>Stachys germanica</i> L.	5	13	4	8	7	11	5	12	7	11	3	8	4	7	7	13	3	11	1	11	8	13	6	9
<i>Stachys palustris</i> L.	10	19	3	8	5	11	5	11	3	7	5	10	9	12	4	13	11	18	1	16	5	12	5	9
<i>Stachys recta</i> L.	5	12	3	6	7	12	5	10	7	11	2	7	3	7	6	12	10	14	3	13	6	12	6	9
<i>Stachys sylvatica</i> L.	10	17	4	6	5	11	5	9	5	9	5	10	6	9	4	12	10	18	2	13	5	12	2	7
<i>Stachys transsilvanica</i> Schur	5	12	3	9	7	12	6	12	7	11	3	7	3	7	8	11	10	13	7	11	9	9	6	9
<i>Stachys velata</i> Klokov	5	11	4	8	7	12	6	12	9	11	3	8	3	7	11	12	9	10	7	10	9	10	7	9
<i>Staphylea pinnata</i> L.	8	14	4	6	7	11	6	10	7	10	3	8	6	9	8	12	6	14	7	10	9	12	6	9
<i>Stellaria barthiana</i> Schur	10	16	2	4	3	7	6	9	3	6	4	7	7	10	8	13	13	17	3	7	7	10	5	9
<i>Stellaria crassifolia</i> Ehrh.	16	21	1	2	2	6	2	11	4	9	3	6	10	13	2	9	10	18	5	11	1	9	6	9
<i>Stellaria fragilis</i> Klokov	8	17	7	10	6	9	6	11	5	7	2	8	5	7	7	10							6	9
<i>Stellaria graminea</i> L.	5	16	2	9	4	9	3	10	8	12	4	9	5	10	5	12	5	20	1	17	4	11	6	9
<i>Stellaria hebecalyx</i> Fenzl	8	16	7	10	6	9	6	11	5	7	2	8	5	7	6	8								
<i>Stellaria hippoctora</i> (Czern.) Klokov	5	16	5	9	6	9	6	11	4	7	2	8	5	7	7	10	5	13	9	14	5	9	7	9
<i>Stellaria holostea</i> L.	8	16	2	7	5	9	3	9	4	8	5	9	5	10	5	12	12	16	2	13	5	11	3	6
<i>Stellaria longifolia</i> Muehl. ex Willd.	10	17	2	6	3	7	7	11	4	7	7	11	6	11	4	12	11	17	2	17	1	10	4	6
<i>Stellaria media</i> (L.) Vill.	8	19	2	7	5	12	5	13	5	9	4	10	5	10	5	11			2	15	1	15	6	9
<i>Stellaria neglecta</i> Weihe	9	19	2	7	5	12	5	13	5	9	4	10	5	10	7	14	6	16	2	9	9	12	5	9
<i>Stellaria nemorum</i> L.	10	17	2	6	3	9	4	8	4	7	5	9	6	11	4	9	10	16	2	11	5	11	3	6
<i>Stellaria pallida</i> (Dumort.) Pire	7	15	4	7	8	10	4	10	6	9	4	7	6	9	5	14	5	15	13	16	9	11	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Stellaria palustris</i> Retz.	11	20	1	5	3	9	5	9	4	7	5	10	7	12	6	12	14	18	1	12	6	11	5	9
<i>Stellaria uliginosa</i> Murr.	11	18	1	5	3	7	4	9	2	6	3	7			6	14	11	18	2	12	7	12	4	6
<i>Stenactis annua</i> Nees	8	15	6	9	5	11	5	10	4	8	3	8	6	8									6	9
<i>Stembergia colchiciflora</i> Waldst. et Kit.	5	14	3	7	7	12	7	13	9	12	3	9	9	12	10	12	10	12	6	12	9	12	7	9
<i>Steveniella satyrioides</i> (Stev.) Schlechter	7	15	3	8	7	12	7	12	4	10	3	8	4	8	9	12	8	11	7	9	9	10	6	9
<i>Stipa borysthonica</i> Klokov ex Prokud.	6	12	5	9	5	11	4	10	6	11	2	7	3	7	7	11	9	13	8	14	4	10	6	9
<i>Stipa braueri</i> (Pacz.) Klokov	3	11	3	7	7	13	7	11	8	12	2	8	4	7	9	11	9	11	9	12	8	10	8	9
<i>Stipa capillata</i> L.	3	11	4	9	7	11	5	13	7	9	2	7	4	7	6	13	5	14	6	17	1	10	7	9
<i>Stipa dasyphylla</i> (Czern. ex Lindem.) Trautv.	4	12	3	7	7	11	6	11	7	11	3	8	4	7	7	10	10	11	7	14	6	10	8	9
<i>Stipa lessingiana</i> Trin. et Rupr.	3	11	3	8	7	12	7	11	7	11	2	8	4	7	8	12	5	13	10	17	6	10	8	9
<i>Stipa lithophila</i> P. Smirn.	5	12	3	7	8	12	5	11	8	12	2	8	3	7	7	10	10	13	7	9	8	9	7	9
<i>Stipa pennata</i> L. s. l.	5	12	4	9	5	12	6	10	7	11	3	7	4	7	7	12	9	14	6	16	5	10	7	9
<i>Stipa pontica</i> P. Smirn.	5	11	3	7	7	12	6	12	8	12	2	8	4	7	8	11	10	12	8	10	9	11	7	9
<i>Stipa pulcherrima</i> C. Koch	3	10	4	9	7	12	6	10	7	11	3	7	4	7	7	12	7	13	6	15	6	11	6	9
<i>Stipa syreistschikowii</i> P. Smirn.	3	11	3	7	7	12	6	11	9	12	3	7	4	7	9	12	10	12	7	12	9	10	8	9
<i>Stipa tirsia</i> Stev.	5	12	4	9	7	12	6	11	7	12	3	8	4	7	7	10	10	14	6	15	6	10	7	9
<i>Stipa ucrainica</i> P. Smirn.	5	10	3	8	7	12	6	12	9	11	3	7	4	7	9	11	10	11	9	12	8	9	7	9
<i>Stipa zalesskii</i> Wilensky	5	12	3	8	7	12	6	12	7	11	2	8	4	7	7	10	9	11	11	16	5	9	8	9
<i>Stratiotes aloides</i> L.	19	23	2	5	5	11	6	10	3	8	4	11	13	15	4	12	3	11	3	12	5	11	7	9
<i>Streptopus amplexifolium</i> (L.) DC	8	17	2	5	6	3	3	8	9	11	3	8	4	7	4	10	3	7	14	17	6	10	4	6
<i>Strigosella africana</i> (L.) Botsch.	3	7	7	11	10	13	10	17	9	12	1	4	5	9	8	14	1	13	9	17	7	13	7	9
<i>Strophostoma sparsiflora</i> (Mikan) Turcz.	8	17	5	9	7	11	5	9	9	10	7	11	4	8	6	12	5	18	6	13	5	10	4	8

Suaeda confusa Iljin	7	16	9	11	11	13	14	18	8	10	3	9	3	8	9	15	3	11	8	17	6	11	8	9
Suaeda prostrata Pall.	9	19	9	11	9	15	14	18	3	6	3	11	5	11	8	12	5	13	8	17	3	10	8	9
Suaeda salsa (L.) Pall.	8	19	9	11	9	15	14	18	3	6	5	11	3	8	9	11	5	10	5	11	6	11	8	9
Subularia aquatica L.	17	21	1	4	4	8	1	4	1	5	1	4	13	15	3	7	13	21	1	8	5	12	5	8
Succisa pratensis Moench	10	17	6	9	5	10	4	12	3	7	2	6	6	8	5	12	11	16	2	14	5	12	6	9
Succisella inflexa (Kluk) G. Beck	13	19	5	9	7	10	2	6	3	8	3	7	7	10	7	11	11	14	7	10	8	10	6	9
Swertia alpestris Baumg.	10	17	3	6	5	10	2	7	9	11	3	8	9	11	4	5	16	18	5	8	8	9	7	9
Swertia perennis L.	13	19	3	6	7	11	5	9	7	12	3	8	9	11	6	12	12	16	5	8	7	9	7	9
Swida alba (L.) Opiz	10	18	3	7	6	11	5	9	4	8	5	9	7	10	5	10	10	15	9	17	1	7	5	9
Swida australis (C.A.Mey.) Pojark. ex Grossh.	9	15	4	8	7	11	6	9	4	8	5	9	6	8	9	12	9	12	6	14	9	11	5	9
Swida sanguinea (L.) Opiz	7	17	4	8	7	11	4	8	6	11	5	8	5	8	7	13	11	15	3	11	7	12	5	9
Symphytum asperum Lepech.	7	16	6	9	5	11	5	9	4	7	5	9	7	10	5	10	7	13	6	15	7	11	7	9
Symphytum cordatum Waldst. et Kit. ex Willd.	7	15	4	6	7	10	5	10	7	10	5	10	6	9	5	9	14	18	6	10	7	9	2	5
Symphytum officinale L.	11	18	3	6	6	10	5	11	3	8	3	10	8	12	4	11	11	16	2	14	6	12	6	9
Symphytum tauricum Willd.	11	14	4	6	7	11	4	9	7	11	3	10	6	9	9	11	10	13	6	8	8	10	4	7
Syrenia cana (Pill. et Mitt.) Neill.	5	9	8	11	3	11	1	13	3	7	1	3	3	6	7	11	10	13	9	13	5	10	8	9
Syrenia montana (Pall.) Klokov	3	7	7	11	9	13	5	13	3	7	1	3	3	8	7	10	6	12	10	16	6	10	8	9
Syrenia talievii Klokov	3	7	2	5	10	13	9	13	11	13	1	3	3	6	8	10	10	11	10	12	7	8	8	9
Syringa josikaea Jacq. fil.	11	19	4	9	7	10	3	9	5	9	6	9	7	12	7	11	7	10	7	8	9	9	6	9
Syringa vulgaris L.	8	15	4	8	5	10	4	9	4	9	5	9	5	8	7	12	8	14	9	10	9	11	6	9
Taeniatherum asperum (Simonk.) Nevski	4	12	6	11	7	11	6	12	6	10	5	9	3	7	11	14	3	11	6	17	9	13	8	9
Taeniatherum crinitum (Schreb.) Nevski	5	12	6	11	7	11	6	12	6	10	5	9	3	7	11	14	3	11	6	17	9	13	8	9
Tamarix gracilis Willd.	6	15	8	11	10	13	10	17	4	7	2	5	4	9	8	12	6	10	5	10	6	10	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Tamarix ramosissima</i> Ledeb.	7	17	8	11	7	12	7	16	4	9	2	6	4	7	10	13	3	11	9	17	5	11	7	9
<i>Tamus &amp;l. communis</i> L.	8	15	4	6	7	11	4	10	7	10	4	8	5	8	8	14	7	15	3	12	10	13	4	6
<i>Tanacetum achilleifolium</i> (Bieb.) Sch. Bip.	3	8	6	9	9	12	9	15	7	9	3	6	4	8	8	11	9	13	5	7	6	10	7	9
<i>Tanacetum millefolium</i> (L.) Tzvel.	3	9	3	7	6	12	8	11	8	12	2	7	4	7	7	11	6	12	9	13	6	9	7	9
<i>Tanacetum vulgare</i> L.	8	16	8	11	5	10	3	15	2	7	4	8	4	8	3	12	8	18	1	17	1	12	6	9
<i>Taraxacum alpinum</i> Hegetschw. et Heer	10	17	4	6	5	8	3	8	3	7	3	6	4	8	3	4	16	18	6	7	5	6	7	9
<i>Taraxacum bessarabicum</i> (Hornem.) Hand.-Mazz.	9	16	5	9	8	14	8	16	5	11	3	10	4	8	6	13	5	13	5	15	6	12	7	9
<i>Taraxacum erythrospermum</i> Andrz.	3	13	4	8	7	12	7	15	5	9	3	7	4	9	6	11	10	18	7	15	6	10	7	9
<i>Taraxacum hybernum</i> Stev.	3	11	3	9	7	11	4	13	3	8	1	4	3	7	11	12	9	10	8	9	9	10	2	9
<i>Taraxacum officinale</i> Webb. ex Wigg.	6	17	5	9	6	11	4	12	6	10	4	9	7	11	4	15	9	20	1	15	5	13	6	9
<i>Taraxacum serotinum</i> (Waldst. et Kit.) Poir.	4	11	3	7	7	11	8	16	3	11	1	6	4	7	7	12	6	12	8	15	6	12	7	9
<i>Taxus baccata</i> L.	8	15	1	5	7	12	5	9	7	11	3	10	5	9	6	13	10	21	2	12	9	12	1	6
<i>Teesdalia coronopifolia</i> (J.P. Berget) Thell.	1	7	9	11	8	11	3	9	3	12	1	3	3	6	11	14	3	10	6	10	10	13	8	9
<i>Teesdalia nudicaulis</i> (L.) R. Br.	7	12	7	10	4	7	1	4	2	6	1	5	4	7	6	12	12	16	3	8	8	12	7	9
<i>Telekia speciosa</i> (Schreb.) Baumg.	10	16	3	7	5	10	4	9	5	9	5	9	4	7	7	12	12	15	6	12	8	10	5	9
<i>Tetragonolobus maritimus</i> (L.) Roth.	11	17	7	9	9	12	9	16	5	8	2	7	4	7	8	11	10	14	3	11	9	13	7	9
<i>Teucrium chamaedrys</i> L.	4	12	3	8	7	11	5	10	7	13	2	6	3	7	9	13	6	14	3	11	8	12	5	9
<i>Teucrium jaiilae</i> Juz.	6	13	3	6	7	13	7	12	9	13	1	8	3	6	7	8	12	13	7	8	8	9	8	9
<i>Teucrium montanum</i> L.	3	11	3	6	9	12	7	11	9	13	1	5	3	7	9	13	11	14	5	9	9	12	8	9
<i>Teucrium pannonicum</i> A. Kerner	6	13	2	6	7	12	7	12	10	13	2	7	3	7	8	11	10	13	7	10	9	10	8	9



Teucrium polium L.	4	11	1	4	7	11	7	13	7	13	1	7	3	7	8	14	5	12	6	15	7	12	8	9
Teucrium scordium L.	13	18	6	10	7	11	5	15	6	9	3	9	6	9	7	13	3	13	1	14	5	11	7	9
Thalictrum alpinum L.	7	11	6	9	3	6	2	6	1	7	1	3	3	7	1	5	13	20	1	16	1	7	7	9
Thalictrum aquilegifolium L.	10	16	2	7	4	8	5	9	5	8	6	10	5	10	6	12	12	16	6	11	6	11	4	6
Thalictrum bauhinii Crantz	6	14	5	7	7	11	5	11	9	11	3	6	5	7	7	11	9	14	6	11	9	11	7	9
Thalictrum flavum L.	11	19	1	5	5	9	3	11	5	8	6	10	8	12	3	12	8	15	3	16	4	12	6	9
Thalictrum flexuosum Bernh. ex Reichenb.	5	12	4	8	7	10	6	11	9	12	3	7	4	8					6	12	8	11	6	9
Thalictrum foetidum L.	2	9	6	11	9	12	8	14	9	13	1	5	4	7	3	12	5	13	8	16	2	11	7	9
Thalictrum lucidum L.	12	19	1	5	5	9	7	10	3	7	6	10	7	12	6	12	11	14	8	12	6	10	5	9
Thalictrum minus L.	4	13	5	10	7	11	7	13	7	13	2	7	5	8	4	15	7	16	2	16	2	15	5	9
Thalictrum simplex L.	8	15	2	8	5	9	7	13	7	11	6	9	6	9	4	12	8	14	7	17	5	11	5	9
Thalictrum uncinatum Rehm.	5	13	5	9	7	12	5	11	10	13	2	7	5	7	8	10	11	13	8	10	8	9	7	9
Thelypteris palustris Schott	11	19	3	9	4	8	3	8	2	6	1	8	9	14	4	17	4	13	1	17	4	15	4	8
Thesium alpinum L.	8	13	3	7	4	9	5	9	2	6	1	7	3	6	2	8	14	18	5	8	8	10	7	9
Thesium arvense Horvatovszky	5	13	4	8	7	12	6	10	8	12	1	8	4	7	7	11	5	15	5	15	6	12	7	9
Thesium brachyphyllum Boiss.	4	12	4	7	8	11	8	12	9	12	3	8	4	7	9	12	5	12	7	11	9	11	7	9
Thesium ebracteatum Hayne	7	12	4	9	5	8	5	10	4	10	3	5	4	7	7	9	11	14	6	9	5	10	6	9
Thesium linophyllum L.	5	11	4	9	8	11	5	11	6	11	2	5	4	7	7	11	11	14	6	11	8	12	7	9
Thesium procumbens C.A.Mey.	5	12	4	9	6	11	6	12	9	13	2	7	4	7	8	11	5	13	8	12	6	9	7	9
Thlaspi alliaceum L.	7	12	4	8	7	11			2	6	4	9	4	8	10	14	3	14	4	12	10	13	8	9
Thlaspi arvense L.	6	14	6	11	7	11	5	15	6	10	5	9	4	9	4	14	6	11	3	15	3	15	6	9
Thlaspi dacicum Heuff.	6	11	3	8	7	10	3	8	7	11	1	4	4	7	4	6	16	17	6	8	6	8	7	9
Thlaspi kovatsii Heuff.	7	14	6	9	8	10	1	5	6	12	1	3	3	6	2	4	16	17	6	7	6	7	7	9
Thlaspi macranthum (Lipsky) N. Busch	4	11	6	8	9	12	2	10	7	11	1	5	3	6	7	9	11	13	6	8	8	9	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Thlaspi perfoliatum</i> L.	5	13			7	11			9	11	1	7			7	13	3	13	4	15	6	13	6	9
<i>Thlaspi praecox</i> Wulf	5	9	6	8	9	12	9	12	2	11	1	6	3	6	9	12	10	13	8	11	8	14	7	9
<i>Thymelaea passerina</i> (L.) Coss. et Germ.	3	10	8	11	7	11	7	15	7	12	1	6	3	6	8	14	6	14	6	16	5	12	7	9
<i>Thymus alpestris</i> Tausch	8	16	4	7	5	8	3	10	5	12	2	8	3	7	5	7	15	18	6	7	8	9	8	9
<i>Thymus borysthenticus</i> Klokov et Shost.	5	13	3	10	5	9	3	5	3	8	1	6	3	6	10	11	10	11	10	11	8	9	8	9
<i>Thymus calcareus</i> Klokov ex Shost.	4	12	2	4	7	13	6	13	11	13	2	8	3	6	9	10	6	8	11	12	8	9	8	9
<i>Thymus callieri</i> Bord.ex Velen.	5	13	2	4	7	12	5	12	8	13	2	5	3	6	7	11	10	13	7	9	8	10	8	9
<i>Thymus dimorphus</i> Klokov et Shost.	4	13	2	5	6	11	6	12	8	13	1	5	3	7	9	11	11	12	7	11	8	10	8	9
<i>Thymus dzevanovskyi</i> Klokov et Shost.	5	13	2	4	7	12	5	12	8	13	2	5	3	6	7	11	10	13	7	9	9	10	8	9
<i>Thymus marschallianus</i> Willd.	5	14	3	7	8	11	4	11	7	12	2	7	4	7	4	11	9	13	7	15	6	10	7	9
<i>Thymus moldavicus</i> Klokov et Shost.	5	13	2	4	7	12	5	11	9	13	2	7	3	6	9	10	12	13	9	11	9	10	8	9
<i>Thymus pallasianus</i> H. Braun	5	12	3	10	5	9	3	6	3	7	1	5	3	6	9	11	10	12	10	11	8	10	8	9
<i>Thymus pannonicus</i> auct. non All.	5	14	3	7	8	11	6	11	9	12	2	7	3	7	8	10	11	14	7	11	8	9	7	9
<i>Thymus pulcherrimus</i> Schur	8	13	5	9	5	10	3	9	7	11	3	8	3	6	5	6	16	18	5	7	6	9	7	9
<i>Thymus pulegioides</i> L.	8	13	5	9	5	10	3	9	7	11	3	6	4	8	5	9	11	15	3	10	8	12	6	9
<i>Thymus serpyllum</i> L.	5	14	5	8	5	9	1	5	1	5	1	8	3	6	4	10	12	14	5	9	7	10	6	9
<i>Thymus tauricus</i> Klokov et Shost.	5	13	2	4	7	13	5	11	9	13	1	5	3	6	8	10	10	12	7	8	9	9	8	9
<i>Thymus tschemjajevii</i> Klokov et Shost.	5	14			8	11					2	6							9	10	8	9	8	9
<i>Tilia argentea</i> Desf.ex D.C.	7	13	4	6	5	10	5	11	6	11	3	9	5	7	10	13	9	13	9	11	9	13	3	6

<i>Tilia caucasica</i> Rupr.	7	15	4	6	6	11	4	10	5	11	3	9	5	8	10	12	10	13	7	11	9	10	3	6
<i>Tilia cordata</i> Mill.	8	16	4	6	5	9	3	9	4	9	5	9	5	8	6	12	11	15	3	12	5	11	3	6
<i>Tilia dasystyla</i> Stev.	7	15	4	6	6	11	6	10	5	11	3	9	5	8	10	12	10	13	7	9	9	10	3	6
<i>Tilia europaea</i> L.	8	16	4	6	5	9	3	9	3	9	5	9	5	8	6	12	11	15	3	12	5	11	3	6
<i>Tilia platyphyllos</i> Scop.	7	15	4	6	6	11	5	10	6	12	4	9	5	8	7	13	11	15	3	10	9	12	4	6
<i>Tillaea vaillantii</i> Willd.			9	11					3	6	1	4	4	6	9	15							8	9
<i>Tofieldia calyculata</i> (L.) Wahlenb.	10	18	3	7	7	11	4	8	7	11	1	7	9	12	5	12	13	15	6	12	7	10	7	9
<i>Tordylium maximum</i> L.	5	13	5	8	8	11	7	11	7	11	3	7	4	8	11	14	6	12	6	15	9	12	6	9
<i>Torilis arvensis</i> (Huds.) Link.	7	13	5	8	7	11	7	11	6	11	3	7	4	8	8	14	6	12	2	17	8	13	6	9
<i>Torilis japonica</i> (Houtt.) DC.	8	16	4	7	7	11	5	9	4	8	6	10	5	9	6	14	10	18	2	17	4	14	5	8
<i>Torilis nodosa</i> (L.) Gaertn.	7	16	5	8	7	11	7	11	7	10	5	9	3	7	8	15	6	15	3	17	9	14	6	9
<i>Torilis ucrainica</i> Spreng.	5	13	5	8	7	11	6	10	6	10	3	7	3	7	6	12	12	14	8	11	9	11	6	9
<i>Torularia torulosa</i> (Desf.) O. E. Schulz	3	8	7	11	9	12	9	16	5	9	2	6	4	7	11	15	3	10	5	15	9	13	8	9
<i>Tragacantha amacantha</i> (Bieb.) Stev.	5	12	3	7	7	12	6	12	9	13	1	8	4	7	8	12	9	10	7	9	10	11	7	9
<i>Tragopogon borystenicus</i> Artemcz.	5	12	2	11	4	11	5	14	2	6	1	6	3	6	9	11	10	11	8	11	9	9	7	9
<i>Tragopogon dasythynchus</i> Artemcz.	5	13	5	8	7	12	6	12	6	10	3	8	4	7	9	11	9	12	10	14	8	9	6	9
<i>Tragopogon donetzius</i> Artemcz.	5	13	5	11	7	12	6	11	4	10	2	6	3	6	8	10	10	11	10	12	8	8	7	9
<i>Tragopogon major</i> Jacq.	3	13	3	11	5	11	3	14	3	12	1	8	3	7	6	13	7	14	6	14	6	10	6	9
<i>Tragopogon orientalis</i> L.	5	13	5	8	5	10	5	11	6	9	5	9	4	7	6	11	11	16	6	16	4	10	6	9
<i>Tragopogon podolicus</i> (DC.) Artemcz.	5	13	5	8	6	11	6	11	6	9	3	8	4	7	7	9	6	13	9	12	8	9	6	9
<i>Tragopogon pratensis</i> L.	7	15	5	8	7	10	5	11	6	9	4	9	4	7	6	12	12	16	4	12	7	11	6	9
<i>Tragopogon tanaiticus</i> Artemcz.	5	13	9	11	7	10	6	11	6	9	2	6	3	6	8	10	10	11	11	12	8	8	8	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Tragopogon ucrainicus</i> Artemez.	5	16	9	11	7	10	6	11	2	6	3	7	3	6	8	10	11	13	8	11	8	9	8	9
<i>Trapa natans</i> L.	19	23	1	7	6	10	6	10	4	9	5	10	12	15	7	14	3	18	5	11	5	11	7	9
<i>Traunsteinera globosa</i> (L.) Reichenb.	8	17	3	7	3	7	5	9	5	9	3	8	6	10	7	12	11	16	1	12	8	11	5	9
<i>Tribulus terrestris</i> L.	6	12	9	11	7	12	6	11	8	11	2	8	3	7	7	16	1	12	9	16	4	13	8	9
<i>Trientalis europaea</i> L.	8	16	3	6	3	7	2	6	3	7	2	7	5	7	3	10	10	15	1	17	1	11	4	6
<i>Trifolium alpestre</i> L.	5	13	5	8	5	9	5	13	7	11	3	8	5	8	7	13	11	14	5	13	6	10	6	9
<i>Trifolium ambiguum</i> Bieb.	9	15	5	8	7	12	5	11	6	9	2	8	5	8	9	11	10	12	7	12	9	10	6	9
<i>Trifolium angustifolium</i> L.	5	12	5	9	7	12	5	13	7	9	2	8	4	7	7	14	6	11	6	12	10	13	6	9
<i>Trifolium arvense</i> L.	5	14	5	11	3	12	3	12	1	8	3	8	3	7	8	13	9	16	2	13	5	13	6	9
<i>Trifolium aureum</i> Poll.	5	14	5	8	3	9	3	9	6	12	2	5	4	8	7	10	10	16	4	12	5	11	6	9
<i>Trifolium badium</i> Schreb.	8	16	4	8	7	11	3	8	6	9	1	4	3	6	5	7	15	16	5	7	8	8	7	9
<i>Trifolium borysthenticum</i> Grun.	8	16	7	11	8	11	7	15	5	8	4	7	7	10	9	11	9	12	9	13	6	9	7	9
<i>Trifolium campestre</i> Schreb.	5	16	5	9	5	12	6	13	3	9	3	8	4	7	7	13	6	16	1	16	7	14	7	9
<i>Trifolium caucasicum</i> Tausch	8	14	5	8	7	11	6	11	5	9	3	8	4	8	9	11	9	11	8	12	9	10	6	9
<i>Trifolium diffusum</i> Ehrh.	7	13	5	9	8	12	8	15	6	11	3	8	5	9	9	12	8	11	9	12	9	10	6	9
<i>Trifolium dubium</i> Sibth.	8	16	5	9	5	9	5	10	6	9	3	8	4	7	6	13	6	15	5	11	5	13	6	9
<i>Trifolium echinatum</i> Bieb.	5	15	5	9	7	11	7	13	7	9	4	7	4	8	10	14								
<i>Trifolium fragiferum</i> L.	9	17	7	9	7	11	9	15	6	11	3	10	7	11	8	13	6	15	2	16	6	13	7	9
<i>Trifolium hirtum</i> All.	5	12	5	9	7	12	6	13	5	11	3	8	4	8	10	14	6	11	6	15	9	12	6	9
<i>Trifolium hybridum</i> L.	9	17	5	10	7	11	5	11	4	9	4	8	6	10	7	13	11	14	3	14	6	11	5	9
<i>Trifolium leucanthum</i> Bieb.	5	11	5	9	7	11	6	12	7	12	3	7	4	7	10	14	4	11	6	13	8	13	6	9
<i>Trifolium lupinaster</i> L.	7	13	4	7	5	10	5	11	7	12	3	7	5	8	2	10	8	13	6	17	1	9	6	9
<i>Trifolium medium</i> L.	7	14	6	9	5	9	3	13	4	9	3	8	6	11	6	13	11	16	1	14	5	11	5	9
<i>Trifolium montanum</i> L.	5	15	5	8	7	11	3	13	7	12	4	10	5	9	6	12	11	14	5	14	5	11	6	9

<i>Trifolium ochroleucum</i> Huds.	8	13	5	8	7	11	6	11	6	11	2	6	5	9	8	13	12	15	3	10	8	11	6	9
<i>Trifolium pannonicum</i> Jacq.	8	15	5	8	7	11	6	11	6	11	3	8	5	9	8	10	11	14	7	11	8	11	6	9
<i>Trifolium prantense</i> L.	8	17	6	10	5	4	2	15	3	9	3	10	6	11	2	10	5	20	1	17	3	12	5	9
<i>Trifolium repens</i> L.	8	17	6	10	5	10	2	15	3	9	3	10	6	11	7	13	3	20	1	17	6	13	6	9
<i>Trifolium resupinatum</i> L.	8	15	6	10	8	12	7	15	3	7	3	8	7	11	10	14	10	13	6	12	8	11	7	9
<i>Trifolium retusum</i> L.	8	17	6	11	8	12	10	15	3	7	3	8	3	8	9	13	11	14	7	11	9	11	8	9
<i>Trifolium rubens</i> L.	5	12	4	7	5	11	5	10	7	11	2	6	4	8	8	9	12	14	6	9	9	11	6	9
<i>Trifolium scabrum</i> L.	5	10	5	9	7	12	5	13	5	10	1	5	4	7	7	14	5	15	4	17	8	11	7	9
<i>Trifolium spadiceum</i> L.	10	17	6	9	3	7	3	9	5	8	1	7	6	10	6	8	11	14	5	11	5	10	6	9
<i>Trifolium strepens</i> Crantz.	8	15	4	8	6	11	5	13	5	11	3	8	3	7	6	11	10	14	6	13	5	11	6	9
<i>Triglochin maritimum</i> L.	10	18	7	11	7	13	8	15	4	7	3	7	7	11	3	14	2	18	4	14	1	11	7	9
<i>Triglochin palustre</i> L.	10	19	7	11	6	12	4	14	4	6	3	8	7	12	2	13	2	18	3	13	1	11	7	9
<i>Trigonella caerulea</i> (L.) Ser.	5	14	4	9	5	11	5	14	4	8	5	9	4	7	7	14	6	14	5	9	8	10	7	9
<i>Trigonella coerulescens</i> (Bieb.) Halacsy.	5	10	4	7	7	12	7	12	9	12	1	5	4	7	9	13	3	10	5	10	7	12	7	9
<i>Trigonella fischerana</i> Ser.	5	14	4	8	6	11	7	12	7	9	5	8	5	9	8	13							7	9
<i>Trigonella gladiata</i> Stev. ex Bieb.	5	13	4	7	7	12	6	12	8	12	2	8	4	9	8	14	6	11	7	13	8	13	8	9
<i>Trigonella monspeliaca</i> L.	5	12	3	9	9	11	3	13	3	7	3	6	3	7	10	14	5	13	5	12	8	13	8	9
<i>Trigonella procumbens</i> (Bess.) Reichenb.	5	14	4	8	5	11	5	14	4	9	3	9	4	7	6	12	6	15	4	17	7	13	8	9
<i>Trinia glauca</i> (L.) Dumort.	3	10	3	7	7	11	5	12	8	12	2	7	4	7	9	12	11	14	3	11	9	12	8	9
<i>Trinia hispida</i> Hoffm.	5	12	3	7	7	11	6	11	7	11	2	8	4	7	10	11	10	12	7	17	6	10	8	9
<i>Trinia kitaibelii</i> Bieb.	6	11	3	7	7	12	5	12	7	12	2	7	4	7	8	14	10	15	7	12	7	9	8	9
<i>Trinia multicaulis</i> Schischk.	6	9	3	6	7	12	6	12	8	11	2	7	4	7	7	10	10	12	8	12	6	10	8	9
<i>Tripolium vulgare</i> Nees	9	18	7	10	10	14	12	18	6	9	3	10	6	10	5	13	6	18	1	17	4	13	7	9
<i>Trisetum alpestre</i> (Host) Beauv.	7	14	3	7	3	8	3	9	6	11	2	7	3	7	3	6	12	18	6	7	8	8	7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Trisetum ciliare</i> (Kit.) Domin	7	14	3	7	3	8	3	10	3	9	2	7	3	7	4	6	16	18	6	7	8	8	7	9
<i>Trisetum flavescens</i> (L.) Beauv.	8	16	4	8	5	9	5	9	6	11	4	9	6	9	6	13	12	16	2	8	8	13	6	9
<i>Trisetum sibiricum</i> Rupr.	8	18	4	8	3	9	4	9	5	9	3	7	6	9	2	10	10	14	6	17	1	10	5	8
<i>Triticum boeoticum</i> Boiss.	5	13	7	9	6	11	7	12	8	11	3	9	4	7	11	12	10	11	7	17	8	12	7	9
<i>Trollius europaeus</i> L.	10	17	2	6	5	11	4	8	5	7	5	9	6	11	3	11	11	16	2	12	3	11	5	9
<i>Tulipa biflora</i> Pall.	3	8	3	6	7	12	7	12	9	12	3	7	3	7	8	11	3	11	5	7	6	11	8	9
<i>Tulipa graniticola</i> (Klokov et Zoz) Klokov	3	10	3	6	6	11	6	12	4	9	2	6	3	7	9	12	10	11	10	11	8	9	8	9
<i>Tulipa quercetorum</i> Klokov et Zoz	5	15	3	6	6	11	5	11	4	10	3	8	5	8	9	12	10	11	8	12	8	9	5	9
<i>Tulipa schrenkii</i> Regel	3	9	3	8	7	13	7	13	6	11	3	8	4	7	7	11	8	11	9	15	6	9	8	9
<i>Tulipa scythica</i> Klokov et Zoz	5	12	7	9	7	12	7	13	7	10	3	8	5	7	9	10	10	11	10	11	9	9	8	9
<i>Turgenia latifolia</i> (L.) Hoffm.	3	12	4	8	9	12	7	11	5	9	1	5	3	7	9	13	5	15	3	17	5	13	7	9
<i>Turritis glabra</i> L.	5	15	5	10	6	9	3	11	6	10	5	11	5	8	4	14	9	16	3	17	7	11	5	9
<i>Tussilago farfara</i> L.	8	16	7	10	7	11	3	9	7	12	4	9	6	9	4	13	10	17	3	11	5	12	6	9
<i>Typha angustifolia</i> L.	16	22	3	6	6	11	5	13	2	8	5	11	12	14	3	13	3	15	1	17	4	15	8	9
<i>Typha latifolia</i> L.	16	22	3	6	6	11	5	11	2	8	5	11	12	14	4	15	3	18	3	13	3	13	8	9
<i>Typha laxmannii</i> Lepech.	16	22	2	6	7	13	7	15	2	8	4	9	12	14	6	12	10	13	3	12	5	11	8	9
<i>Typha minima</i> Funk	16	22	3	6	7	11	7	13	4	8	4	9	12	14	6	14	3	16	3	17	5	13	8	9
<i>Typha schutteworthii</i> Koch et Sond.	17	21	3	6	5	11	6	11	5	10	3	6	12	14									8	9
<i>Ulmus carpiniifolia</i> Rupp. ex G. Suckow	7	15	3	9	7	11	5	13	6	10	4	9	4	8	8	13	8	14	6	15	5	12	5	9
<i>Ulmus glabra</i> Huds.	10	17	4	6	5	9	5	10	3	8	6	11	6	11	5	12	10	20	2	13	5	12	3	6
<i>Ulmus laevis</i> Pall.	9	17	4	6	5	11	5	13	4	9	5	10	6	11	7	11	9	14	6	16	5	11	3	6
<i>Ulmus pumila</i> L.	9	16			6	12	5	10							7	11	10	15	5	17	3	12		

<i>Urtica cannabina</i> L.	7	15				6	11	6	11	4	8	6	10	5	8	6	12	5	13	6	11	5	9	5	9	
<i>Urtica dioica</i> L.	8	19	4	9	6	6	11	4	10	3	9	7	11	8	12	3	13	9	20	1	17	1	13	4	9	
<i>Urtica galeopsifolia</i> Wierzb. ex Opiz	11	19	4	8	6	6	10	5	10	3	9	8	11	8	12	8	10	10	14	9	13	8	10	4	9	
<i>Urtica kioviensis</i> Rogov.	12	19	4	8	6	6	10	8	10	3	9	8	11	8	12	8	11	11	14	6	11	9	11	4	9	
<i>Urtica pilulifera</i> L.	7	17	3	8	5	9	9	6	11	5	9	5	11	8	12	10	14	4	14	8	16	9	13	6	9	
<i>Urtica urens</i> L.	7	17	3	7	5	9	9	4	11	3	9	6	11	8	12	4	14	1	23	1	13	6	13	6	9	
<i>Utricularia intermedia</i> Hayne	16	22	1	5	7	7	11	3	7	1	6	1	5	14	15	3	11	12	17	1	17	1	11	6	8	
<i>Utricularia minor</i> L.	16	22	1	5	5	11	11	3	7	1	5	3	7	14	15	4	11	12	17	1	17	1	12	6	8	
<i>Utricularia vulgaris</i> L.	19	23	1	5	6	11	11	5	11	1	6	4	9	14	15	4	12	3	18	10	16	1	12	6	8	
<i>Vaccaria segetalis</i> Gareke	8	12	5	7	5	8	5	10	3	9	5	5	8	6	8	7	14	3	15	5	15	5	11	7	9	
<i>Vaccinium myrtillus</i> L.	8	16	3	5	1	6	2	7	1	7	1	8	6	6	10	2	12	9	18	1	16	2	12	2	9	
<i>Vaccinium uliginosum</i> L.	8	18	3	7	1	6	2	7	1	7	1	8	6	6	9	1	9	11	18	1	16	2	12	4	9	
<i>Valeriana dioica</i> L.	13	18	3	8	2	7	3	7	2	7	5	9	8	8	12	7	11	13	16	4	10	9	12	6	9	
<i>Valeriana exaltata</i> Mikán fil.	11	19	4	9	7	11	3	10	3	7	3	7	3	10	8	12	2	12	3	12	5	11	6	11	6	9
<i>Valeriana grossheimii</i> Worosch.	8	14	4	8	7	11	6	12	7	11	3	8	6	6	10	9	11	10	14	7	11	8	10	5	9	
<i>Valeriana nitida</i> Kreyer	8	16	4	9	7	11	5	10	4	8	5	9	8	8	12	6	10	10	14	5	13	6	10	4	9	
<i>Valeriana officinalis</i> L.	9	14	4	9	5	10	5	11	3	10	5	9	7	7	12									6	9	
<i>Valeriana sambucifolia</i> Mikán fil.	10	17	4	7	4	8	3	7	3	7	3	5	9	7	12	4	12	9	18	2	14	7	11	4	9	
<i>Valeriana simplicifolia</i> (Reichenb.) Kabath	15	19	3	6	7	10	5	9	3	7	3	6	7	12	5	8	12	18	5	9	9	8	11	7	9	
<i>Valeriana stolonifera</i> Czern.	8	15	4	8	7	10	6	11	3	9	3	8	5	9	9	8	11	10	13	7	12	7	9	6	9	
<i>Valeriana tripteris</i> L.	10	15	3	7	5	9	3	7	4	8	5	9	5	8	7	12	14	12	14	7	10	8	12	4	9	
<i>Valeriana tuberosa</i> L.	5	13	5	9	5	13	5	13	5	9	3	8	3	8	8	6	14	8	13	6	15	6	13	7	9	
<i>Valerianella carinata</i> Loisel.	5	15	4	10	6	11	5	12	4	8	2	7	3	7	8	15	9	15	3	12	8	12	7	9		
<i>Valerianella coronata</i> (L.) DC.	5	12	4	9	7	12	6	12	5	10	2	8	4	4	9	8	14	3	15	2	11	8	13	7	9	

SPECIES NAME	HdI	HdA	fHI	fHA	ReI	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Valerianella costata</i> (Stev.) Betcke	6	11	3	9	7	12	7	14	4	11	2	8	4	7	9	14	6	11	6	12	9	12	8	9
<i>Valerianella dentata</i> (L.) Poll.	5	13	4	8	5	11	6	10	5	9	4	9	5	8	7	13	11	16	2	15	8	13	7	9
<i>Valerianella lasiocarpa</i> (Stev.) Betcke	5	12	3	8	7	12	7	12	7	10	3	8	4	7	10	14	1	10	8	17	9	12	7	9
<i>Valerianella locusta</i> (L.) Laterrade	7	14	5	9	7	11	7	12	4	10	4	9	5	9	6	15	6	15	1	11	7	12	7	9
<i>Valerianella mixta</i> (L.) Duf.	6	11	4	8	7	12	7	12	6	9	2	7	4	7	7	14	5	15	2	16	7	13	7	9
<i>Valerianella muricata</i> (Stev. ex Bieb.) J.W.Loud.	5	12	4	8	7	12	7	13	3	9	4	9	4	7	10	14	3	10	6	17	8	12	7	9
<i>Valerianella pumila</i> (L.) DC.	5	13	3	9	7	13	7	14	5	10	3	6	4	8	10	14	3	12	7	17	7	12	7	9
<i>Valerianella rimosa</i> Bast.	5	14	4	8	5	11	6	11	4	9	5	9	4	7	8	12	9	15	3	12	8	12	7	9
<i>Valerianella turgida</i> (Steven) Betcke	5	13	3	7	7	12	7	12	7	10	3	8	3	7	10	13	9	12	7	12	8	12	7	9
<i>Vallisneria spiralis</i> L.	19	23	1	3	7	11	6	12	6	9	1	7	13	15	9	17	3	13	3	13	4	13	5	8
<i>Velezia glutinosa</i> Bieb.	5	11	6	10	7	12	6	11	5	10	2	8	5	7	10	14	1	11	6	13	8	13	7	9
<i>Ventenata dubia</i> (Leers) Coss.	5	11	6	10	7	12	6	14	5	10	2	8	5	7	8	12	10	14	6	11	9	11	7	9
<i>Veratrum album</i> L.	8	17	3	6	5	9	3	8	4	7	4	9	5	9	3	12	13	18	5	11	5	11	7	9
<i>Veratrum lobelianum</i> Bernh.	8	18	4	8	5	9	3	9	4	8	3	8	6	11	3	12	10	14	5	17	3	11	6	9
<i>Veratrum nigrum</i> L.	5	13	4	7	7	11	4	9	6	9	3	9	5	8	7	11	11	14	6	17	3	10	5	8
<i>Verbascum austriacum</i> Schott	5	13	3	7	8	11	5	11	6	11	3	7	4	7	7	11	6	13	9	16	6	10	7	9
<i>Verbascum blattaria</i> L.	7	15	7	10	9	12	11	16	5	9	5	9	6	10	7	12	8	15	3	17	6	12	7	9
<i>Verbascum densiflorum</i> Bertol.	5	13	4	7	7	11	5	11	4	9	3	9	3	7	7	12	9	15	1	12	7	12	6	9
<i>Verbascum lychntis</i> L.	5	13	4	9	5	11	3	9	4	10	3	8	3	7	6	12	10	15	3	13	6	12	6	9
<i>Verbascum nigrum</i> L.	7	13	3	8	5	11	5	9	4	10	5	9	4	7	5	12	9	15	1	13	5	12	6	9



Verbasum ovalifolium Donn ex sims.	5	12	3	7	7	12	6	11	9	10	3	8	4	7	9	12	9	11	7	12	8	10	6	9
Verbasum phlomoides L.	5	13	3	10	6	12	5	15	5	9	5	9	3	7	6	13	5	15	6	13	6	12	7	9
Verbasum phoeniceum L.	3	12	3	7	6	11	5	10	7	12	2	7	4	7	5	12	8	13	6	15	6	9	7	9
Verbasum spectabile Bieb.	9	16	3	6	7	12	7	12	7	10	7	9	5	8	9	11	9	12	7	10	9	10	3	8
Verbasum thapsus L.	3	13	3	9	5	10	6	12	5	11	2	7	3	7	6	13	5	16	2	17	5	12	7	9
Verbasum pinnatifidum Vahl	5	13	7	11	7	12	5	15	4	8	3	8	3	8	10	13	6	10	6	11	9	12	8	9
Verbena officinalis L.	8	15	4	9	5	10	6	10	7	10	5	9	5	9	7	14	5	15	3	17	8	15	7	9
Verbena supina L.	11	16	6	9	7	12	11	15	6	10	4	7	6	10	11	16	1	10	5	17	8	15	8	9
Veronica agrestis L.	8	15	6	8	5	10	5	10	4	9	5	10	4	7	6	13	10	16	1	11	7	13	5	9
Veronica alpina L.	9	17	3	7	3	7	3	6	3	7	3	7	4	9	2	6	16	18	1	8	5	10	7	9
Veronica anagallis- aquatica L.	14	19	3	7	5	11	4	9	4	8	5	9	9	12	4	14	5	16	1	17	4	15	6	9
Veronica anagalloides Guss.	13	19	3	7	5	11	4	9	4	8	5	9	9	12	9	14	6	14	6	17	6	13	6	9
Veronica aphylla L.	8	15	3	7	7	11	3	6	8	10	1	5	3	6	3	5	14	18	4	8	7	10	8	9
Veronica arvensis L.	7	14	4	10	5	9	5	9	3	10	3	9	3	7	4	13	8	16	1	13	5	13	6	9
Veronica austriaca L.	5	14	5	8	7	12	6	11	6	10	3	6	4	7	6	12	7	16	2	12	6	11	6	9
Veronica barrilieri Schott	5	14	5	9	7	12	6	12	7	12	2	7	4	7	8	11	11	14	6	12	8	10	7	9
Veronica baumgartenii Roem. et Schult.	9	17	3	7	6	10	7	9	5	9	3	8	4	9	3	5	14	18	6	8	8	9	6	9
Veronica beccabunga L.	15	19	3	6	6	11	4	10	4	9	5	9	9	12	4	13	8	18	1	17	5	13	5	9
Veronica bellidioides L.	8	16	3	7	1	5	1	5	4	6	1	6	3	6	3	5	14	18	4	8	7	10	7	9
Veronica chamaedrys L.	7	15	6	9	6	11	3	11	6	9	3	8	4	7	4	12	11	16	1	13	5	12	6	9
Veronica dillenii Crantz	5	14	9	11	5	9	3	9	3	7	1	6	3	6	6	10	10	14	6	15	6	10	7	9
Veronica filiformis Smith	5	15	7	9	5	9	7	11	7	10	3	6	3	7	7	11	11	16	2	10	8	11	5	9
Veronica fruticans Jacq.	8	13	4	7	5	9	3	6	8	11	1	7	3	6	3	7	14	16	1	7	6	10	7	9
Veronica gentianooides Vahl	9	15	4	8	7	12	5	11	7	11	2	8	4	8	7	12	5	12	7	12	8	11	7	9
Veronica hederifolia L.	6	15	4	9	5	11	5	9	4	9	5	10	3	8	6	13	7	16	3	12	6	13	6	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHl	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Veronica incana</i> L.	4	13	4	11	5	12	4	9	3	9	1	6	3	7	3	11	5	18	1	17	5	11	6	9
<i>Veronica longifolia</i> L.	10	18	4	9	7	11	3	11	4	8	5	9	7	11	2	11	3	18	6	17	3	10	6	9
<i>Veronica montana</i> L.	10	17	4	7	5	9	3	10	5	10	4	9	5	9	7	10	14	16	2	8	8	12	2	6
<i>Veronica multifida</i> auct. non L.	5	13	3	6	7	13	7	12	9	12	3	8	3	7	9	12	5	13	7	17	9	11	8	9
<i>Veronica officinalis</i> L.	8	16	6	10	2	7	2	8	3	7	3	8	3	8	3	12	10	18	1	13	5	13	4	6
<i>Veronica opaca</i> Fries	8	15	4	8	7	11	6	11	4	9	5	9	4	7	6	10	12	14	5	11	7	10	4	9
<i>Veronica orchidea</i> Crantz	5	14	5	8	5	9	4	8	5	9	3	8	4	8	8	14	11	14	7	11	8	9	5	9
<i>Veronica peregrina</i> L.	5	15	9	11	6	10	6	12	3	6	2	5	3	7	6	14	3	16	3	13	8	13	8	9
<i>Veronica persica</i> Poir.	8	17	7	10	7	11	5	11	4	9	5	10	4	8	6	13	5	16	1	16	6	13	5	9
<i>Veronica polita</i> Fries	8	13	7	10	8	11	5	11	4	9	5	10	4	6	4	14	3	18	1	17	6	13	5	9
<i>Veronica praecox</i> All.	3	11	6	11	7	11	6	11	6	11	1	5	4	7	7	14	10	14	6	11	9	11	7	9
<i>Veronica prostrata</i> L.	5	13	5	8	5	11	6	10	4	9	3	9	4	8	5	12	10	14	6	14	5	10	6	9
<i>Veronica scutellata</i> L.	13	19	3	6	3	7	3	13	3	7	2	7	7	11	3	11	12	18	1	15	5	12	8	9
<i>Veronica serpyllifolia</i> L.	8	17	5	10	5	9	3	11	4	8	5	9	5	9	3	13	11	18	1	13	3	13	6	9
<i>Veronica spicata</i> L.	5	14	4	11	5	12	5	12	4	12	2	6	3	7	4	12	10	14	4	15	5	11	6	9
<i>Veronica spuria</i> L.	5	15	5	8	7	11	6	11	5	9	2	8	4	9	4	11	5	15	6	17	1	9	5	9
<i>Veronica taurica</i> Willd.	6	13	3	6	7	13	7	12	9	12	3	8	3	7	8	11	10	12	7	9	9	10	8	9
<i>Veronica teucrium</i> L.	5	16	6	9	7	11	3	11	6	9	3	8	4	8	4	12	10	14	6	15	6	11	6	9
<i>Veronica triloba</i> Opiz	6	14	4	9	5	11	5	9	4	3	5	10	8		7	11	11	15	4	11	9	12	6	9
<i>Veronica triphyllos</i> L.	6	12	5	10	5	9	6	11	5	9	3	7	4	7	7	12	10	14	4	15	7	11	6	9
<i>Veronica umbrosa</i> Bieb.	8	15	4	7	6	11	6	11	6	9	3	8	5	9	9	11	10	14	7	12	8	10	4	6
<i>Veronica urticifolia</i> Jacq.	8	16	3	6	5	10	5	10	4	7	5	8	6	10	8	10	13	15	6	10	8	11	2	5
<i>Veronica verna</i> L.	5	12	5	10	3	10	5	13	7	11	1	5	3	7	4	13	8	14	4	15	6	11	7	9
<i>Viburnum lantana</i> L.	8	13	5	8	7	11	5	9	8	11	3	8	5	8	8	13	10	15	5	11	8	13	5	8
<i>Viburnum opulus</i> L.	8	17	3	8	5	11	3	9	7	10	4	9	6	11	4	13	11	17	6	11	4	12	5	7
<i>Vicia angustifolia</i> Reichard	5	15	5	9	7	11	5	10	6	9	3	8	5	8	6	14	5	18	2	17	3	13	5	9

<i>Vicia bithynica</i> (L.) L.	7	13	4	7	7	11	5	12	4	9	3	7	5	8	8	14	8	14	4	12	9	13	6	8
<i>Vicia boissieri</i> Freyn	7	16	4	7	7	11	7	11	6	10	3	7	5	8	9	12	9	11	6	16	9	11	6	9
<i>Vicia cassubica</i> L.	5	13	4	7	5	9	4	9	3	7	2	7	5	8	8	9	11	14	5	12	7	11	6	9
<i>Vicia cordata</i> Wulf. et Hoppe	6	14	4	7	5	11	7	11	6	9	4	9	5	7	9	14	9	13	5	13	9	13	6	9
<i>Vicia cracca</i> L.	8	16	4	7	5	11	4	10	6	9	4	9	5	8	8	13	10	18	1	17	1	12	6	9
<i>Vicia dasycarpa</i> Ten.	7	16	4	7	7	11	7	11	7	10	3	8	5	8	9	14	6	13	6	17	10	13	6	9
<i>Vicia dumetorum</i> L.	8	15	4	7	7	11	4	9	6	9	3	7	5	8	7	11	11	14	5	10	8	10	5	7
<i>Vicia grandiflora</i> Scop.	7	14	5	9	7	11	5	9	7	10	3	7	4	7	8	12	9	13	7	10	9	12	6	9
<i>Vicia hirsuta</i> (L.) S.F. Gray	5	13	5	9	5	11	5	9	4	7	1	7	4	7	6	14	3	20	1	17	4	13	6	9
<i>Vicia lathyroide</i> s. l.	6	13	5	9	3	12	7	12	5	9	3	7	4	7	8	12	10	16	2	12	9	12	6	9
<i>Vicia loiseleurii</i> (Bieb.) Litv.	5	12	5	8	7	11	7	11	9	11	3	8	4	7	8	10	9	10	8	9	10	10	6	9
<i>Vicia narbonensis</i> L.	8	15	5	8	7	14	7	11	9	11	1	6	3	7	10	13	5	14	6	12	8	12	7	9
<i>Vicia pannonica</i> Crantz	8	13	4	8	7	11	5	10	5	10	3	9	5	8	8	12	7	14	6	11	8	10	7	9
<i>Vicia peregrina</i> L.	5	13	4	7	7	11	7	11	6	11	1	5	4	7	9	14	8	12	6	12	9	13	7	9
<i>Vicia pilosa</i> Bieb.	5	14	5	10	7	10	5	10	4	8	1	5	3	7	8	13	8	11	7	11	9	11	6	9
<i>Vicia pisiformis</i> L.	7	14	4	7	7	11	4	9	5	8	2	7	5	8	8	13	11	14	6	12	6	10	5	8
<i>Vicia sativa</i> L.	8	15	4	7	5	11	7	11	6	9	3	8	5	7	5	14	3	18	1	17	4	13	6	9
<i>Vicia sepium</i> L.	8	15	5	8	5	11	4	9	6	9	3	9	5	7	8	10	10	17	1	16	3	11	5	9
<i>Vicia sylvatica</i> L.	8	16	3	8	6	9	3	7	4	8	3	8	6	9	7	9	12	17	2	15	4	11	4	8
<i>Vicia tenuifolia</i> Roth	5	14	4	7	7	11	5	10	7	11	3	7	5	8	7	14	5	14	6	16	4	12	6	9
<i>Vicia tetrasperma</i> (L.) Schreb.	5	15	5	9	3	11	5	14	4	11	4	8	4	7	6	12	5	18	1	15	4	12	5	9
<i>Vicia villosa</i> Roth	5	13	4	7	4	9	5	9	7	10	3	9	5	8	5	14	4	18	1	17	6	12	6	9
<i>Vinca herbacea</i> Waldst. et Kit.	6	11	3	7	7	12	6	12	9	11	2	8	4	7	7	12	6	11	8	15	8	12	7	9
<i>Vinca minor</i> L.	8	15	4	7	7	11	4	9	4	7	5	9	5	9	7	13	11	15	2	10	8	12	2	6

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NHI	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Vincetoxicum hirundinaria</i> Medik.	5	15	4	9	7	10	5	12	8	12	3	8	3	7	6	13	11	14	4	15	5	12	6	9
<i>Vincetoxicum laxum</i> (Bartl.) Gren. et Goodr.	8	13	4	8	7	12	7	12	6	12	3	8	4	7	7	11	10	13	6	12	8	13	6	9
<i>Vincetoxicum scandens</i> Somm. et Levier	8	15	4	8	7	10	5	10	5	9	5	9	5	8	9	11	10	12	7	11	8	10	4	8
<i>Vincetoxicum schmalhausense</i> (Kusn.) Stank.	7	13	3	7	8	12	7	12	9	12	3	8	4	7	9	11	10	12	8	11	9	10	6	9
<i>Viola accrescens</i> Klokov	6	13	4	9	7	11	6	11	8	11	3	7	5	7	8	10	9	12	9	15	6	9	7	9
<i>Viola alba</i> Bess.	8	15	3	7	7	11	4	10	5	12	4	9	5	9	9	14	9	14	3	10	9	12	3	7
<i>Viola ambigua</i> Waldst. et Kit.	7	13	4	9	7	12	5	11	9	12	2	8	5	7	7	12	10	13	7	12	7	11	6	9
<i>Viola arenaria</i> D&c.	9	13			6	10	1	6	7	12	1	7			4	10	3	15	5	17	1	10		
<i>Viola arvensis</i> Murr.	8	16	7	11	5	9	3	10	4	7	3	9	5	10	4	12	8	16	1	14	6	12	6	9
<i>Viola biflora</i> L.	9	17	2	7	5	8	3	9	3	7	4	10	7	11	2	8	12	8	2	17	1	10	5	9
<i>Viola canina</i> L.	8	16	2	7	3	7	3	8	4	7	2	5	5	10	4	11	10	18	1	15	4	11	5	9
<i>Viola collina</i> Bess.	5	14	3	10	7	11	3	11	5	11	1	5	5	7	5	11	11	14	6	12	6	11	5	9
<i>Viola cretacea</i> Klokov	3	10	7	11	5	11	3	11	5	13	1	4	4	7	9	11	10	12	9	12	8	9		
<i>Viola dacica</i> Borb.	8	15	3	7	3	8	2	5	3	7	3	7	5	9	4	6	16	18	6	7	8	8	6	9
<i>Viola declinata</i> Waldst. et Kit.	9	15	3	7	4	8	2	5	3	7	3	7	5	9	4	6	16	18	6	7	8	9	7	9
<i>Viola elatior</i> Fries	9	17	2	7	7	11	5	11	9	12	1	5	5	10	6	12	5	14	6	14	4	10	6	9
<i>Viola epipsila</i> Ledeb.	12	19	1	4	1	5	1	3	1	4	2	5	9	13	3	9	11	14	1	13	4	10	6	9
<i>Viola hirta</i> L.	6	14	3	9	7	11	5	9	4	10	3	10	5	8	5	11	9	15	3	14	6	12	5	7
<i>Viola jooi</i> Janka	7	10	5	7	9	12	7	12	10	13	4	8	5	7	8	10	11	13	6	10	8	9	8	9
<i>Viola jordanii</i> Henry	7	11	5	9	7	10	5	9	7	10	4	6	4	7	9	11	6	14	8	12	8	12	6	9
<i>Viola kitaibeliana</i> Schult.	6	12	4	9	8	11	6	11	8	12	3	6	5	7	9	13	10	14	2	13	8	12	7	9
<i>Viola lavrenkoana</i> Klokov	3	10	7	11	5	11	3	10	5	13	1	4	4	7	9	11	10	12	9	12	8	9	7	9

<i>Viola matutina</i> Klokov	6	13	5	11	3	11	2	11	4	10	1	8	4	7	8	10	10	12	9	13	7	9	7	9	
<i>Viola mirabilis</i> L.	8	15	3	7	7	11	5	9	4	9	3	8	5	9	5	13	10	14	5	14	5	10	3	6	
<i>Viola montana</i> L.	9	17	2	7	7	11	5	11	5	9	4	7	5	10	6	12	5	14	6	14	4	10	5	9	
<i>Viola nemoralis</i> Kütz.	8	15	3	7	5	9	5	9	5	9	6	9	5	9	5	9	6	18	1	17	4	10	5	8	
<i>Viola odorata</i> L.	9	14	3	7	5	11	5	9	2	9	5	10	5	8	7	13	10	16	2	12	7	12	3	7	
<i>Viola oreades</i> Bieb.	7	12	5	8	9	12	7	11	10	13	5	8	5	8	7	8	1	13	7	8	8	9	7	9	
<i>Viola palustris</i> L.	13	18	1	3	1	6	3	9	2	5	3	8	9	11	3	11	12	18	1	12	6	12	5	8	
<i>Viola pumila</i> Chaix	9	15	3	7			4	6			4	7	5	9	7	12	10	15	4	16	6	12	7	9	
<i>Viola reichenbachiana</i> Jord. ex Boreau	8	15	3	7	5	9	4	9	3	7	3	9	5	9	7	12	11	15	3	11	9	12	3	6	
<i>Viola riviniana</i> Reichenb.	8	15	3	7	3	9	5	9	3	9	3	8	5	9	5	14	11	18	1	10	7	12	3	7	
<i>Viola rupestris</i> F. W. Schmidt	4	12	7	10	5	11	2	11	3	11	1	5	4	7	4	10	5	14	5	17	1	10	7	9	
<i>Viola saxatilis</i> F. W. Schmidt	8	16	6	9	4	9	3	9	4	8	4	8	5	8	6	9	2	16	5	10	8	11	7	9	
<i>Viola scotophylla</i> Jord.	8	14	3	7	7	11	4	10	7	12	3	8	5	8	8	14	9	14	3	10	9	13	5	7	
<i>Viola sieheana</i> W. Beck.	7	14	3	7	5	11	5	10	7	10	3	8	5	8	10	12	7	11	7	11	9	11	5	7	
<i>Viola stagnina</i> K.it.	11	19	1	6	3	9	5	15	6	10	7	10	8	11	7	9	10	15	7	11	4	12	6	9	
<i>Viola suavis</i> Bieb.	5	13	4	9	5	10	7	11	5	9	3	7	5	7	8	11	8	13	7	15	7	10	4	6	
<i>Viola tanaitica</i> Grosset	9	14			7	10	6	11	7	11	6	11	6	8	8	11	10	12	9	12	7	8	5	8	
<i>Viola tricolor</i> L.	7	15	6	9	4	9	3	11	4	10	1	8	5	9	4	12	11	18	1	12	6	12	7	9	
<i>Viola uliginosa</i> Bess.	13	17	1	3	5	9	3	6	3	7	8	10	7	11	5	9	11	14	5	9	7	10	5	9	
<i>Viscaria vulgaris</i> Bernh.	6	13	4	9	3	9	3	11	4	9	2	5	5	7	5	10	10	18	3	13	5	11	6	9	
<i>Vitis sylvestris</i> C.C.Gmel.	8	15			7	11	3	10			4	9			8	13	5	15	3	14	9	12	5	9	
<i>Vulpia ciliata</i> Dumort.	5	12	8	11	9	11	5	13	3	9	1	5	3	7	10	14	6	15	3	12	10	13	7	9	
<i>Vulpia myuros</i> (L.) C. C. Gmel.	3	14	8	11	9	11	5	13	3	9	1	5	3	7	8	14	6	15	3	12	10	13	7	9	
<i>Wolffia arniza</i> (L.) Horkeel ex Wimm.	17	21	1	5	7	10	5	10	2	6	5	9	11	13										7	9

SPECIES NAME	HdI	HdA	fHI	fHA	Rel	RcA	SII	SIA	CaI	CaA	NII	NtA	AeI	AeA	TmI	TmA	Oml	OmA	KnI	KnA	CrI	CrA	LcI	LcA
<i>Woodisia alpina</i> (Bolt.) S. F. Gray	4	15	1	5	3	7	4	7	1	4	1	7	3	6	1	7	10	18	1	8	5	10	5	8
<i>Woodisia ilvensis</i> (L.) R. Br.	5	13	1	5	3	7	1	6	1	4	1	5	3	6	4	10	8	20	1	17	2	10	6	9
<i>Xanthium albinum</i> (Widd.) H. Scholz	9	18	9	11	3	11	5	16	2	5	4	9	6	9	5	10	10	16	5	12	7	11	7	9
<i>Xanthium californicum</i> Greene	8	15	9	11	5	12	4	13	2	6	3	10	3	7	7	11	9	14	6	14	7	11	7	9
<i>Xanthium italicum</i> Moretti	8	15	9	11	10	13	12	17	2	6	2	5	3	8										7
<i>Xanthium spinosum</i> L.	5	15	7	11	5	12	7	16	2	6	5	9	5	9	9	17	6	15	3	11	5	12	7	9
<i>Xanthium strumarium</i> L.	8	15	9	11	5	13	8	17	5	9	5	9	4	9	6	13	3	15	3	11	6	13	7	9
<i>Xeranthemum annuum</i> L.	4	10	4	8	5	10	6	10	2	9	1	7	3	7	9	13	6	15	6	13	7	13	8	9
<i>Xeranthemum cylindraceum</i> Sibth. et Smith	4	10	4	8	7	11	5	13	2	9	1	6	3	7	10	12	9	14	6	11	8	10	8	9
<i>Zannichellia major</i> Boenn. ex Reichenb.	20	23	1	3	9	13	9	15	5	8	7	10	12	13	10	14	6	18	1	17	8	13	5	9
<i>Zannichellia palustris</i> L.	19	23	1	7	7	13	9	14	5	8	6	9	12	15	5	13	5	18	5	15	3	15	5	9
<i>Zannichellia pedunculata</i> Reichenb.	20	23	1	3	7	12	9	15	5	8	5	9	12	13	5	14	6	18	1	17	6	15	5	9
<i>Zizania aquatica</i> L.	18	21	3	9	7	11	4	10	4	8	5	9	9	12	7	11	10	18	7	11	6	9	7	9
<i>Zizania latifolia</i> (Griseb.) Stapf	18	20	3	9	7	10	4	10	4	8	6	10	9	12	7	14	10	12	7	13	7	9	7	9
<i>Ziziphora capitata</i> L.	3	9	2	5	9	12	9	13	8	11	2	5	4	7	11	14	1	10	6	15	9	13	8	9
<i>Ziziphora taurica</i> Bieb.	3	7	2	11	2	13	9	14	4	11	2	5	3	6	11	12	9	10	7	8	10	11	8	9
<i>Ziziphora tenuior</i> L.	3	9	2	11	9	13	2	14	4	7	2	5	3	6	10	14	7	10	8	17	6	12	8	9
<i>Zostera marina</i> L.	20	23	1	3	11	15	11	18			5	9	14	15	3	14	1	11	1	11	5	13	5	8
<i>Zostera noltii</i> Hornem.	20	23	1	3	11	15	11	18			4	9	14	15					1	13	5	15	5	8
<i>Zygophyllum fabago</i> L.	3	9	7	11	11	13	9	16	4	8	3	6	4	8					6	13	8	13	8	9

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**Didukh, Ya.P. The ecological scales for the species of Ukrainian flora and their use in synphytoindication. – Kyiv: Phytosociocentre, 2011. - 176 p.**

The amplitude scales of 3300 flora species of Ukraine are presented, reflecting species relation to 12 main climate and edaphic factors. The Tsyganov, Ramensky, Tsatsenkin, Ellenberg, Landolt, Zolyomi, Zarzycki, Frank et Klotz and other ecological scales' comparisons are illustrated. The methods of synphytoindication are presented as an approach of ecological indices assessment based on phytosociological surveys taking into account indicator species presence and their occurrence in the community. The examples of practical applications of data using ordination and gradient analysis, the principal component method, ecological mapping, assessment of ecological factors changes in space (landscapes) and time (successions) are given. It is recommended for botanists and ecologists.

Tabl. 7. Fig. 17.