

to recognize the presence or absence of species and endemic species in Slovakia we used :

- ❖ checklist of Slovakia
- ❖ CDF (Central database of phytosociological samples of Slovakia)
- ❖ publications (Flora of Slovakia, Review of endemic species of Slovakia, Red book of endangered species of Slovakia)

species with invalid name:

- Bromus pannonicus* ssp. *monocladus* (Domin) P.M.Sm. – valid name is *B. monocladus* Domin
- Erysimum witmannii* ssp. *pallidiflorum* (Jav.) Jav. – valid name is *E. pallidiflorum* Szépl. ex Jáv.
- Erysimum witmannii* ssp. *vagicum* (Holub et Tomsovic) Dostal – valid name is *E. vagicum* Holub et Tomšovic, nom. prov.
- Festuca carpatica* F.G.Dietr – valid name is *F. pseudolaxa* Schur
- Galium anisophyllum* ssp. *fatrense* Ehrend. et Siposova – valid name is *G. fatrense* Ehrend. et Šípošová, nom. inval.
- Leucanthemum raciborskii* M.Pop. et Chrshan. – valid name is *L. gaudinii* subsp. *gaudinii*
- Leucanthemum waldsteinii* (Schultz Bip.) Pouzar – valid name is *L. rotundifolium* (Waldst. et Kit. ex Willd.) DC.
- Minuartia frutescens* (Kit.) Tuzson – valid name is *M. hirsuta* ssp. *frutescens* (Kit.) Hand.-Mazz.
- Papaver alpinum* ssp. *tatricum* E.I.Nyarady – valid name is *P. tatricum* (A. Nyár.) Ehrend.
- Primula elatior* ssp. *carpatica* (Fuss) W.W.Sm. et Forrest – valid name is *P. elatior* ssp. *tatrensis* (Domin) Soó
- Pulsatilla halleri* ssp. *slavica* (G.Reuss) Zamels – valid name is *P. slavica* G. Reuss - if it is var. *wahlenbergii*, or *P. subslavica* Futák ex Goliašová - if it is var. *Slavica*

Scilla bifolia ssp. *subtriphylla* (Schur) Domin – **valid name is *Scilla kladnii* Schur**
Sedum krajiniae Domin – **valid name is *S. neglectum* Ten.**
Sempervivum montanum L. ssp. *carpaticum* Wettst. ex Hayek – **valid name is *S. matricum* Letz,**
ined.
Sorbus austriaca (Beck) Hedl. ssp. *hazslinszkyana* Soó – **valid name is *S. hazslinszkyana* (Soó)**
Májovský
Trifolium medium L. ssp. *banaticum* (Heuffel) Hendrych – **valid name is *T. flexuosum* Jacq.**
Trifolium medium L. ssp. *sarosiense* (Hazsl.) Simonkai – **valid name is *T. sarosiense* Hazsl.**
Trollius europaeus ssp. *transsilvanicus* Schur – **valid name is *T. altissimus* Crantz**
Viola declinata Waldst. et Kit. – **valid name is *V. dacica* Borbás**

Problematic species:

Agrimonia pilosa Ledebour – allochthonous

Carex sempervirens ssp. *tatrorum* (Zapal.) Pawl. – **today it is identify with *C. sempervirens* ssp.**
laxiflora

Centaurea phrygia ssp. *melanocalathia* (Borbás) Dostal – **today it is included under *C. phrygia***
subsp. *phrygia*

Erysimum witmannii ssp. *vagicum* (Holub et Tomsovic) Dostal – **invalid name, today evaluate as**
cytotyp *E. odoratum*

Knautia dipsacifolia ssp. *turocensis* (Borbás) Jav. ex Kiss - **today it is included under *K. dipsacifolia***
(*K. maxima*) described from Vel'ká Fatra Mts.

P. elatior ssp. *tatrensis* (Domin) Soó – **today it is object of taxonomical studies**

Rumex arifolius ssp. *carpaticus* (Zapal.) Pawl. – **from Bukovské vrchy Mts.**