

No.	1	2	3	4	5	6	7	8
<i>Achillea millefolium</i> ssp. <i>sudetica</i>	0	0	I	0	0	0	0	IV
<i>Achillea schurii</i>	0	0	0	I	0	0	0	0
<i>Achillea stricta</i>	0	I	0	0	I	0	0	0
<i>Acinos alpinus</i>	0	0	I	0	0	0	0	0
<i>Aconitum lasianthum</i>	0	0	0	0	0	0	I	0
<i>Agrostis capillaris</i> ssp. <i>capillaris</i>	0	0	0	II	0	0	0	IV
<i>Agrostis rupestris</i>	0	0	0	I	0	0	0	0
<i>Ajuga reptans</i>	0	0	0	0	0	I	0	I
<i>Alchemilla flabelata</i>	0	IV	0	0	0	0	0	I
<i>Alchemilla xanthochlora</i>	0	0	II	0	0	0	0	III
<i>Allium ochroleucum</i>	0	III	0	0	0	0	0	0
<i>Allium senescens</i> ssp. <i>montanum</i>	I	0	0	0	0	III	0	0
<i>Alyssum repens</i>	I	II	0	0	0	0	0	0
<i>Androsace lactaea</i>	0	0	0	0	0	0	0	0
<i>Antennaria dioica</i>	0	0	0	0	0	0	0	0
<i>Anthemis carpatica</i>	0	0	0	0	0	0	0	0
<i>Anthoxanthum odoratum</i>	0	V	0	0	0	0	0	IV
<i>Anthyllis vulneraria</i> ssp. <i>alpestris</i>	IV	0	0	0	0	0	0	0
<i>Arabis alpina</i>	0	0	0	0	0	0	0	0
<i>Armeria alpina</i>	0	I	0	0	0	I	0	0
<i>Asperula capitata</i>	II	0	0	0	0	0	II	0
<i>Asplenium viride</i>	0	0	I	0	0	0	0	0
<i>Aster alpinum</i>	0	0	0	II	I	0	0	0
<i>Astragalus alpinus</i>	0	0	0	0	0	0	0	0
<i>Astragalus frigidus</i>	I	0	0	0	0	0	0	0
<i>Astranta major</i>	0	0	I	0	0	0	0	0
<i>Avenula pubescens</i> ssp. <i>pubescens</i>	I	0	0	0	0	0	0	0
<i>Avenula versicolor</i>	0	II	0	I	0	0	0	0
<i>Bartsia alpina</i>	0	I	0	0	0	0	0	0

Bellardiochloa variegata	0	I	0	0	0	0	0	0
Biscutella laevigata	II	III	0	0	0	0	0	0
Botrychium lunaria	I	I	0	0	0	0	0	0
Briza media	0	0	0	0	0	0	0	0
Bromus barcensis	I	0	0	0	0	0	0	0
Bruckenthalia spiculifolia	0	0	0	II	0	0	0	0
Bupleurum falcatum ssp. cernuum	IV	II	II	0	0	0	0	0
Calamagrostis arundinacea	0	0	0	0	II	0	0	0
Campanula alpina	II	0	0	0	0	III	0	0
Campanula glomerata	I	0	0	0	I	0	0	0
Campanula kladiana	I	0	0	I	0	0	0	0
Campanula patula ssp. abietina	0	0	0	0	I	0	0	0
Campanula serrata	0	0	0	0	0	I	0	III
Campanula serrata	0	II	0	0	0	0	0	0
Cardaminopsis arenosa	0	0	0	II	0	0	0	0
Carduus kernerii	I	0	0	0	I	0	0	0
Carex capillaris	0	0	0	0	0	0	III	0
Carex curvula	0	0	III	0	0	0	0	0
Carex montana	0	0	0	0	III	0	0	0
Carex ornithopoda ssp. ornithopoda	II	0	0	0	0	0	0	0
Carex ovalis	0	0	0	0	0	0	0	0
Carex sempervirens	V	V	0	0	0	0	0	0
Carlina acaulis	I	0	0	0	0	0	0	II
Centaurea pinnatifida	II	0	II	0	0	0	0	0
Centaurea triumpheti	I	0	0	0	0	III	0	0
Cerastium alpinum ssp. lanatum	0	0	0	II	0	0	0	0
Cerastium alpinum var. lanatum	0	0	0	0	III	0	0	0
Cerastium arvense ssp. arvense	0	0	0	0	0	0	0	I
Cerastium arvense ssp. lerchenfeldianum	I	III	0	0	III	0	0	0
Cerastium fontanum ssp. fontanum	0	0	0	0	0	I	0	0

<i>Cerastium fontanum</i> ssp. <i>macrocarpum</i>	0	0	0	0	0	0	0	I
<i>Cerastium transsilvanicum</i>	IV	II	0	0	0	0	0	0
<i>Cerithe glabra</i>	0	0	0	I	0	0	0	0
<i>Chamorchis alpina</i>	0	0	0	0	0	0	0	0
<i>Cirsium erisithales</i>	0	0	0	I	0	0	0	0
<i>Cirsium furiens</i>	I	0	0	0	0	I	0	0
<i>Cnidium silarifolium</i>	0	0	0	0	0	0	0	0
<i>Coeloglossum viride</i>	0	III	0	0	0	0	0	0
<i>Crepis paludosa</i>	0	0	0	0	I	0	0	0
<i>Crocus vernus</i> ssp. <i>vernus</i>	0	0	0	0	0	0	0	0
<i>Cynosurus cristatus</i>	0	0	I	0	0	0	0	IV
<i>Cystopteris alpina</i>	0	0	0	0	0	II	0	0
<i>Danthonia decumbens</i>	0	0	0	0	0	0	0	I
<i>Deschampsia caespitosa</i>	0	0	0	0	0	0	0	III
<i>Deschampsia flexuosa</i>	0	0	0	0	0	0	0	IV
<i>Dianthus glacialis</i> ssp. <i>gelidus</i>	0	0	0	II	0	0	0	0
<i>Dianthus spiculifolius</i>	I	0	0	0	0	0	0	0
<i>Dianthus tenuifolius</i>	IV	III	0	0	0	0	0	0
<i>Doronicum carpaticum</i>	0	0	0	0	II	0	0	0
<i>Doronicum columnae</i>	0	0	0	0	0	0	II	0
<i>Dryas octopetala</i>	0	0	0	0	0	II	0	0
<i>Erigeron uniflorus</i>	0	0	0	0	0	0	0	0
<i>Euphorbia amygdaloides</i>	0	0	0	0	0	0	I	0
<i>Euphrasia saliburgensis</i>	0	0	0	0	0	0	0	0
<i>Euphrasia stricta</i>	0	0	0	0	0	0	0	0
<i>Festuca airoides</i>	0	0	V	0	0	0	0	0
<i>Festuca amethystina</i>	III	V	0	0	0	0	0	0
<i>Festuca carpatica</i>	0	0	0	V	0	0	0	0
<i>Festuca glacialis</i>	0	0	0	0	V	0	0	0
<i>Festuca violacea</i>	0	0	I	0	0	V	I	IV

<i>Festuca rupicola</i> ssp. <i>saxatilis</i>	III	0	0	0	0	0	0	I
<i>Festuca versicolor</i>	IV	I	0	0	0	0	V	0
<i>Fragaria vesca</i>	0	0	0	0	I	0	0	0
<i>Galium album</i>	I	0	II	0	0	0	0	0
<i>Galium anisophyllum</i>	0	III	0	0	0	0	0	0
<i>Galium verum</i>	0	0	0	0	I	0	0	III
<i>Genista tinctoria</i> ssp. <i>oligosperma</i>	0	0	0	I	0	0	0	0
<i>Gentiana acaulis</i>	0	I	0	0	0	0	0	0
<i>Gentiana asclepiadea</i>	0	0	0	0	0	0	0	0
<i>Gentiana lutea</i>	I	0	0	0	I	0	0	0
<i>Gentiana nivalis</i>	0	III	0	0	0	I	0	0
<i>Gentiana nivalis</i>	0	0	0	0	0	0	0	0
<i>Gentiana verna</i>	0	0	0	I	0	0	0	0
<i>Geranium sylvaticum</i>	IV	0	0	0	I	0	0	0
<i>Geum montanum</i>	0	0	I	0	0	0	0	0
<i>Geum rivale</i>	0	0	0	0	0	I	0	0
<i>Gnaphalium supinum</i>	0	0	0	0	I	0	0	0
<i>Gnaphalium sylvaticum</i>	0	0	I	0	0	I	0	II
<i>Helianthemum alpestre</i>	II	II	0	0	0	0	0	0
<i>Helianthemum nummularium</i> ssp. <i>nummularium</i>	0	III	0	I	0	0	0	0
<i>Helianthemum nummularium</i> ssp. <i>grandiflorum</i>	IV	0	0	0	0	0	I	0
<i>Helleborus purpurascens</i>	0	0	0	0	0	0	0	IV
<i>Heracleum spondylium</i> ssp. <i>transsilvanicum</i>	0	0	0	0	0	III	0	0
<i>Hieracium alpinum</i>	0	0	0	0	I	0	I	0
<i>Hieracium aurantiacum</i> ssp. <i>aurantiacum</i>	0	0	0	0	0	0	0	I
<i>Hieracium lactucella</i>	0	0	0	0	0	0	0	0
<i>Hieracium pilosella</i>	0	0	0	0	II	0	II	I
<i>Hieracium rotundatum</i>	0	0	0	0	0	0	0	0
<i>Hieracium villosum</i>	0	0	0	II	0	0	0	0

Homogyne alpina	0	0	0	0	0	I	I	III
Hypericum maculatum	0	0	0	0	III	0	I	I
Hypericum richeri ssp. grisebachii	I	0	0	I	0	0	I	0
Hypochaeris uniflora	I	0	I	0	I	0	0	0
Inula ensifolia	0	0	0	0	0	0	0	0
Iris ruthenica	I	0	0	I	0	0	I	0
Isatis tinctoria	0	0	0	0	0	0	0	0
Juncus trifidus	0	0	0	0	0	0	0	0
Knautia longifolia	IV	II	0	III	0	0	0	0
Kobresia myosuroides	0	0	0	0	0	0	0	0
Koeleria macrantha ssp. transsilvanica	II	III	0	0	0	0	I	0
Leontodon autumnalis ssp. autumnalis	0	0	0	0	I	0	0	III
Leontodon hispidus ssp. hispidus	0	0	0	0	0	0	II	I
Leontopodium alpinum	I	II	0	0	0	0	0	0
Leucanthemum vulgare	0	0	0	0	0	III	0	I
Leucanthemum waldsteini	0	0	0	II	0	0	0	0
Ligularia sibirica	0	0	0	0	II	0	I	0
Ligusticum mutellina	0	0	0	0	0	I	0	0
Linum catharticum	0	0	0	I	0	0	0	III
Linum perenne ssp.extraaxilare	IV	I	0	0	0	0	0	0
Loiseleria procumbens	0	0	0	II	0	0	III	0
Lomatogonium carthiacum	0	0	0	0	0	0	0	0
Lotus corniculatus	IV	0	0	0	0	0	0	III
Luzula luzuloides ssp. cuprina	I	0	0	0	III	0	0	II
Luzula multiflora	0	III	0	0	0	0	0	II
Luzula spicata	0	0	0	I	0	0	0	0
Luzula sudetica	0	0	0	0	0	I	0	0
Luzula sylvatica	0	0	0	0	II	0	0	0
Minuartia sedoides	0	0	0	0	0	0	0	0
Minuartia verna	0	0	0	II	0	0	0	0

Myosotis alpestris	III	0	0	0	0	0	0	0
Nardus stricta	0	0	0	0	II	0	0	V
Nigritella rubra	0	I	0	0	0	0	0	0
Onobrychis transsilvanica	IV	0	0	0	0	0	0	0
Origanum vulgare	0	0	0	II	0	0	0	0
Oxytropis carpatica	0	0	0	I	0	0	0	0
Parnasia palustris	II	IV	0	0	0	0	0	0
Pedicularis verticillata	0	0	0	0	0	I	0	0
Phleum alpinum	0	0	0	0	0	0	I	II
Phyteuma orbiculare	I	III	0	0	0	0	0	0
Pimpinella saxifraga	III	0	0	IV	0	0	0	0
Pinguicula vulgaris	0	0	0	0	0	III	0	I
Plantago lanceolata	0	0	0	0	0	0	0	I
Poa alpina	0	0	0	II	0	0	0	0
Poa media	0	0	0	0	III	0	0	0
Poa molinerii spp. glacialis	0	0	0	0	0	0	0	0
Poa nemoralis	III	I	0	0	0	0	0	0
Polygala alpestris	II	0	0	I	0	0	0	0
Polygonum bistorta	0	0	0	0	0	0	0	I
Polygonum viviparum	III	IV	0	0	0	0	0	0
Potentilla aurea ssp. chrisocraspeda	0	IV	0	0	0	0	0	III
Potentilla crantzii	0	I	0	I	0	I	0	0
Potentilla erecta	0	0	0	0	II	0	0	IV
Potentilla thuringiaca	0	II	0	0	0	0	I	0
Primula elatior	0	0	0	0	0	0	0	0
Primula halleri	0	II	0	0	0	0	0	0
Primula minima	0	0	0	0	I	0	0	0
Prunella vulgaris	0	0	0	0	0	0	0	0
Pseudorchis albida	0	0	0	0	0	I	0	0
Pulsatilla alba	0	I	0	0	I	0	0	0

Ranunculus oreophilus	0	0	0	II	0	0	0	0
Ranunculus pseudomontanus	0	II	0	0	0	0	II	II
Ranunculus serpens ssp. nemorosus	0	0	0	0	0	0	0	I
Rhinanthus alpinus	I	0	0	0	0	0	0	0
Rhodiola rosea	0	0	0	I	0	I	0	0
Rhododendron myrtifolii	0	0	0	0	0	0	0	0
Rumex alpinus	0	0	0	0	0	0	0	I
Rumex arifolius	0	0	0	0	0	I	0	0
Salix herbacea	0	0	I	0	I	0	0	0
Salvia glutinosa	0	0	0	0	0	0	0	0
Saussurea discolor	0	0	0	0	0	0	0	0
Saxifraga aizoides	0	0	0	0	0	0	0	0
Saxifraga exarata ssp. moschata	0	0	III	0	0	0	0	0
Saxifraga oppositifolia	0	0	0	0	II	0	0	0
Saxifraga paniculata	I	0	0	I	0	0	0	0
Scabiosa lucida	II	III	0	0	0	0	II	0
Scleranthus perennis ssp. marginatus	0	0	0	0	I	0	0	0
Scorzonera purpurea ssp. rosea	0	I	0	0	0	0	0	III
Sedum alpestre	0	0	0	0	0	0	0	0
Sedum atratum	0	0	0	I	0	I	0	0
Senecio carpaticus	I	II	0	0	I	0	0	0
Senecio ovatus	0	0	0	0	0	0	0	0
Senecio rupester	0	0	III	0	0	0	0	0
Seseli libanotis	I	0	0	0	0	0	0	0
Sesleria bielzii	0	0	0	0	0	0	0	0
Sesleria coerulans	0	0	0	I	0	III	0	0
Sesleria rigida	V	0	0	0	0	I	0	0
Silene acaulis	0	0	0	0	0	0	0	0
Silene italica ssp. nemoralis	0	0	I	0	0	0	I	0
Silene pusilla	0	0	0	0	0	I	0	0

<i>Silene vulgaris</i>	0	0	0	0	0	0	0	0
<i>Soldanella montana</i>	0	I	0	0	I	0	0	II
<i>Solidago virgaurea</i> ssp. <i>minuta</i>	0	0	III	0	0	0	I	0
<i>Stachys officinalis</i>	0	0	0	0	0	0	0	II
<i>Stellaria graminea</i>	0	0	0	0	0	0	0	II
<i>Taraxacum nigricans</i>	0	0	0	0	0	0	0	0
<i>Taraxacum officinale</i>	0	0	0	0	0	0	0	0
<i>Thymus comosus</i>	0	0	0	0	0	0	0	0
<i>Thymus pulcherrimus</i>	0	0	0	0	0	0	0	0
<i>Thymus pulegioides</i>	0	0	0	I	0	0	0	0
<i>Thymus pulegioides</i>	0	0	0	0	0	0	0	IV
<i>Thymus purrcherimus</i>	0	IV	0	0	0	0	0	0
<i>Trifolium alpestre</i>	0	II	0	II	0	III	0	0
<i>Trifolium pratense</i>	II	0	0	0	0	0	0	III
<i>Trifolium repens</i>	0	0	0	0	0	0	II	V
<i>Trisetum alpestre</i>	0	0	0	I	0	0	0	0
<i>Trisetum fuscum</i>	0	0	0	0	0	I	0	0
<i>Vaccinium myrtillus</i>	0	0	0	0	I	0	0	IV
<i>Vaccinium uliginosum</i>	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i>	0	0	II	0	0	0	0	IV
<i>Valeriana montana</i>	0	0	0	0	0	III	0	0
<i>Veratrum album</i> ssp. <i>lobelianum</i>	0	0	0	I	0	0	I	0
<i>Veronica bellidioides</i>	0	0	0	0	0	0	0	0
<i>Veronica chamaedrys</i>	0	0	0	0	0	0	0	III
<i>Veronica officinalis</i>	0	0	0	0	0	0	0	IV
<i>Vicia cracca</i>	I	0	0	I	0	0	0	0
<i>Viola alpina</i>	0	0	0	0	0	0	0	0
<i>Viola biflora</i>	0	0	0	0	0	III	0	0
<i>Viola canina</i>	0	0	0	0	0	0	I	IV
<i>Viola declinata</i>	0	0	III	0	0	0	0	0



Table S1

Index	Alt	Asp	Slope	Veg_cov	Sam_area	Agr_cap_cap	Agr_rup	Al fla	Alc_xan	Ant_odo
N	45	45	45	45	45	45	45	45	45	45
Shapiro-Wilk W	0,8092	0,7849	0,8972	0,948	0,801	0,3069	0,5098	0,5526	0,395	0,6503
p(normal)	3,82E-06	1,13E-06	0,0007784	0,04262	2,51E-06	2,81E-13	4,74E-11	1,68E-10	2,24E-12	4,23E-09
Jarque-Bera JB	81,36	6,848	5,11	2,403	4,889	1504	98,41	9,825	589,4	95,1
p(normal)	2,16E-18	0,03258	0,07768	0,3008	0,08676	0	4,28E-22	0,007353	1,02E-128	2,24E-21
p(Monte Carlo)	0,0002	0,0315	0,0439	0,1539	0,0459	0,0001	0,0001	0,0177	0,0001	0,0001
Chi^2	6,4667	13,578	2,9111	8,4222	17,311	93,4	69,044	64,6	87,711	41,133
p(normal)	0,010992	0,0002289	0,087971	0,0037066	3,17E-05	4,27E-22	9,63E-17	9,18E-16	7,57E-21	1,42E-10
Chi^2 OK (N>20)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Table S1 continued

Index	Asp_cap	Bel_var	Bis_lae	Bup_fal_cer	Cam_ser	Car_ker	Car_sem	Cer_arv_ler	Cer_tra	Des_cae
N	45	45	45	45	45	45	45	45	45	45
Shapiro-Wilk W	0,4024	0,4041	0,4354	0,4906	0,2721	0,4354	0,7061	0,5711	0,4142	0,4515
p(normal)	2,69E-12	2,81E-12	6,23E-12	2,75E-11	1,31E-13	6,23E-12	3,50E-08	2,97E-10	3,62E-12	9,50E-12
Jarque-Bera JB	48,11	61,96	31,97	16,99	280,7	31,97	93,01	107,4	153,2	100,6
p(normal)	3,57E-11	3,51E-14	1,14E-07	0,0002043	1,10E-61	1,14E-07	6,37E-21	4,87E-24	5,38E-34	1,46E-22
p(Monte Carlo)	0,0003	0,0002	0,0011	0,0045	0,0001	0,0014	0,0002	0,0002	0,0001	0,0001
Chi^2	93,4	93,4	87,711	77,4	112,6	87,711	23,533	64,6	93,4	87,711
p(normal)	4,27E-22	4,27E-22	7,57E-21	1,40E-18	2,64E-26	7,57E-21	1,23E-06	9,18E-16	4,27E-22	7,57E-21
Chi^2 OK (N>20)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Table S1 continued

Index	Des_fle	Dia_ten	Dry_oct	Fes_air	Fes_ame	Fes_nig	Fes_rup_sax	Fes_ver	Gal_an	Gal_ver
N	45	45	45	45	45	45	45	45	45	45
Shapiro-Wilk W	0,4277	0,4515	0,4354	0,5772	0,5148	0,5304	0,4515	0,4779	0,4549	0,4024
p(normal)	5,11E-12	9,50E-12	6,23E-12	3,60E-10	5,46E-11	8,60E-11	9,50E-12	1,94E-11	1,04E-11	2,69E-12



Table S1 continued

Index	Ses_rig_hay	Thy_pul	Thy_pur	Tri_rep	Ver_off	Vio_dec
N	45	45	45	45	45	45
Shapiro-Wilk W	0,6291	0,4242	0,4105	0,5429	0,4024	0,4354
p(normal)	2,00E-09	4,67E-12	3,30E-12	1,25E-10	2,69E-12	6,23E-12
Jarque-Bera JB	35,03	683,4	138,9	39,9	48,11	31,97
p(normal)	2,47E-08	4,07E-149	6,89E-31	2,17E-09	3,57E-11	1,14E-07
p(Monte Carlo)	0,0008	0,0001	0,0001	0,0004	0,0004	0,0016
Chi^2	54,644	77,4	93,4	72,778	93,4	87,711
p(normal)	1,44E-13	1,40E-18	4,27E-22	1,45E-17	4,27E-22	7,57E-21
Chi^2 OK (N>20)	YES	YES	YES	YES	YES	YES