

# **Thermophilisation of communities differs between land plant lineages, land use types and elevation**

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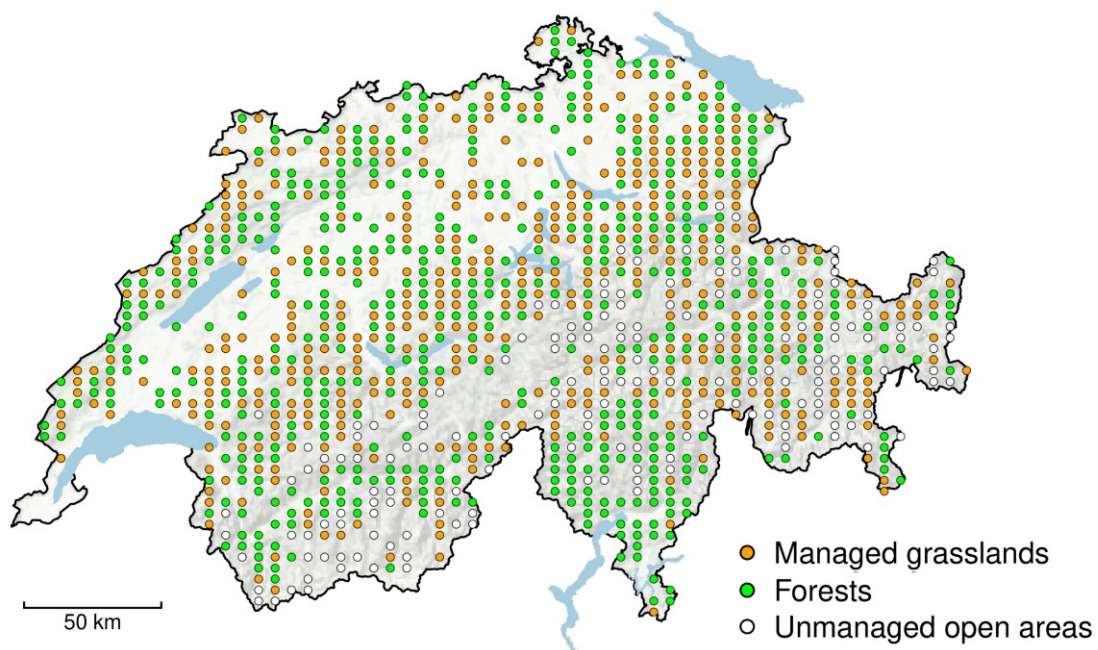
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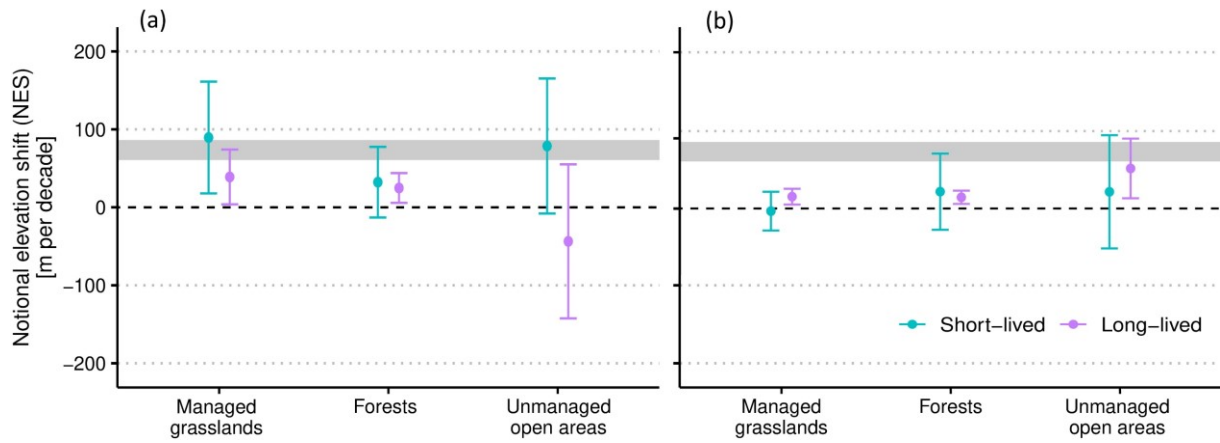
## **Supplementary Information**



**Figure S1. Distribution of the 1146 study plots across Switzerland.** Every year one fifth of the plots is sampled and annual tranches are evenly distributed across major land use types, biogeographical regions and elevation. Assignment to the major land use type (managed grasslands, forests, unmanaged open areas) was based on a fine classification of 32 land use categories similar to the CORINE Land Cover system (Büttner et al. 2004) that are determined in the field at each survey. Background data source: Federal Office of Topography swisstopo.

## Reference

Büttner G, Feranec J, Jaffrain G, et al (2004) The CORINE land cover 2000 project. EARSel eProceedings 3:331–346.



**Figure S2. Mean NES of short and long-lived species in bryophyte (a) and vascular plant (b) communities in three major land use types.** Points refer to the estimates of the life strategy and the whiskers are bootstrapped 95 % confidence intervals. The grey bar marks the observed upward shift of isotherms of 63 to 84 m per decade.

**Table S1. List of recorded bryophyte species with Landolt (et al. 2010) indicator value for temperature (T) life strategy type (s = short-lived, l = long-lived) and number of records (N) in each elevational zone and in total.** Species that can hardly be distinguished are fused to aggregate species (aggr.) according to Kiebach et al. (in press), which were treated as species in the analyses.

References: Kiebach T, Meier M, Steffen J, Bergamini A, Schnyder N & Hofmann H (in press) Rote Liste der Moose. Swissbryophytes & Bafu, Zürich & Bern. Landolt E, Bäumler B, Erhardt A et al (2010) Flora Indicativa. Ecological indicator values and biological attributes of the flora of Switzerland and the Alps. Verlag Paul Haupt, Bern.

| Species                                  | T | Life strategy | N colline | N montane | N subalpine | N alpine | N total |
|------------------------------------------|---|---------------|-----------|-----------|-------------|----------|---------|
| <i>Abietinella abietina</i>              | 3 | l             | 18        | 48        | 37          | 17       | 120     |
| <i>Amblyodon dealbatus</i>               | 2 | s             | 0         | 0         | 0           | 4        | 4       |
| <i>Amblystegium serpens</i>              | 4 | l             | 46        | 164       | 24          | 9        | 243     |
| <i>Amphidium mougeotii</i> aggr.         | 1 | s             | 3         | 1         | 0           | 2        | 6       |
| <i>Anastrophyllum assimile</i>           | 3 | l             | 0         | 1         | 0           | 0        | 1       |
| <i>Andreaea heinemannii</i>              | 1 | l             | 0         | 0         | 0           | 1        | 1       |
| <i>Andreaea nivalis</i>                  | 1 | l             | 0         | 0         | 0           | 12       | 12      |
| <i>Andreaea rothii</i> aggr.             | 1 | l             | 0         | 0         | 4           | 0        | 4       |
| <i>Andreaea rupestris</i> aggr.          | 1 | l             | 3         | 9         | 14          | 54       | 80      |
| <i>Aneura pinguis</i>                    |   | l             | 0         | 5         | 24          | 19       | 48      |
| <i>Anoetangium aestivum</i>              | 2 | s             | 0         | 2         | 0           | 0        | 2       |
| <i>Anomobryum julaceum</i> aggr.         | 3 | s             | 0         | 2         | 2           | 4        | 8       |
| <i>Anomodon longifolius</i>              | 4 | l             | 4         | 0         | 0           | 0        | 4       |
| <i>Anomodon viticulosus</i>              | 4 | l             | 23        | 40        | 0           | 0        | 63      |
| <i>Anthelia julacea</i> aggr.            | 1 | s             | 0         | 0         | 0           | 73       | 73      |
| <i>Antitrichia curtipendula</i>          | 3 | l             | 0         | 5         | 0           | 0        | 5       |
| <i>Asterella lindenbergiana</i>          | 1 | l             | 0         | 0         | 0           | 2        | 2       |
| <i>Atrichum angustatum</i>               | 4 | l             | 9         | 8         | 0           | 0        | 17      |
| <i>Atrichum undulatum</i> aggr.          | 3 | l             | 59        | 240       | 110         | 6        | 415     |
| <i>Aulacomnium palustre</i>              | 3 | l             | 0         | 3         | 11          | 24       | 38      |
| <i>Barbilophozia attenuata</i>           | 3 | s             | 0         | 1         | 16          | 2        | 19      |
| <i>Barbilophozia barbata</i>             | 3 | l             | 5         | 50        | 78          | 17       | 150     |
| <i>Barbilophozia floerkei</i>            | 2 | l             | 0         | 1         | 8           | 55       | 64      |
| <i>Barbilophozia kunzeana</i>            |   | s             | 0         | 0         | 1           | 5        | 6       |
| <i>Barbilophozia lycopodioides</i> aggr. | 2 | l             | 0         | 44        | 198         | 394      | 636     |
| <i>Barbilophozia quadriloba</i>          | 1 | s             | 0         | 0         | 1           | 8        | 9       |
| <i>Barbula unguiculata</i>               | 4 | s             | 17        | 83        | 37          | 35       | 172     |
| <i>Bartramia halleriana</i>              | 3 | s             | 0         | 4         | 8           | 5        | 17      |
| <i>Bartramia ithyphylla</i>              | 1 | l             | 0         | 5         | 29          | 199      | 233     |
| <i>Bartramia pomiformis</i>              | 3 | l             | 1         | 1         | 0           | 0        | 2       |
| <i>Bazzania flaccida</i>                 | 3 | s             | 1         | 7         | 0           | 1        | 9       |
| <i>Bazzania tricrenata</i>               | 2 | l             | 0         | 0         | 6           | 3        | 9       |
| <i>Bazzania trilobata</i>                | 3 | l             | 1         | 7         | 7           | 0        | 15      |
| <i>Blepharostoma trichophyllum</i>       | 2 | s             | 0         | 120       | 222         | 194      | 536     |

|                                        |   |   |     |      |     |     |      |
|----------------------------------------|---|---|-----|------|-----|-----|------|
| Blindia acuta aggr.                    | 2 | s | 0   | 7    | 3   | 12  | 22   |
| Blindiadelphus recurvatus              | 3 | s | 0   | 10   | 8   | 7   | 25   |
| Brachydontium trichodes                |   | s | 0   | 0    | 2   | 0   | 2    |
| Brachytheciastrum collinum             |   | l | 0   | 0    | 1   | 25  | 26   |
| Brachytheciastrum trachypodium         | 1 | l | 0   | 0    | 0   | 4   | 4    |
| Brachytheciastrum velutinum            | 3 | l | 74  | 557  | 312 | 131 | 1074 |
| Brachythecium cirrosus aggr.           | 1 | l | 0   | 1    | 11  | 25  | 37   |
| Brachythecium rivulare aggr.           |   | s | 218 | 1007 | 204 | 24  | 1453 |
| Brachythecium salebrosum aggr.         |   | s | 26  | 242  | 344 | 233 | 845  |
| Brachythecium sect. Albicans           |   | l | 0   | 8    | 11  | 11  | 30   |
| Brachythecium tenuicaule aggr.         | 3 | l | 5   | 62   | 8   | 4   | 79   |
| Bryoerythrophyllum ferruginascens      | 2 | s | 0   | 1    | 3   | 7   | 11   |
| Bryoerythrophyllum recurvirostre aggr. |   | s | 3   | 39   | 57  | 139 | 238  |
| Bryoerythrophyllum rubrum              | 2 | s | 0   | 0    | 0   | 1   | 1    |
| Bryum alpinum aggr.                    |   | l | 0   | 1    | 0   | 6   | 7    |
| Bryum archangelicum                    |   | l | 0   | 0    | 1   | 3   | 4    |
| Bryum argenteum                        | 4 | s | 25  | 51   | 33  | 24  | 133  |
| Bryum bicolor aggr.                    | 4 | s | 5   | 12   | 5   | 2   | 24   |
| Bryum blindii aggr.                    |   | l | 0   | 0    | 0   | 1   | 1    |
| Bryum caespitium                       |   | l | 0   | 1    | 1   | 2   | 4    |
| Bryum capillare aggr.                  | 3 | l | 85  | 369  | 286 | 300 | 1040 |
| Bryum creberrimum                      | 3 | s | 0   | 0    | 1   | 1   | 2    |
| Bryum funckii                          |   | s | 0   | 0    | 1   | 1   | 2    |
| Bryum pallens aggr.                    |   | l | 0   | 0    | 1   | 2   | 3    |
| Bryum pallescens                       | 2 | s | 0   | 1    | 2   | 6   | 9    |
| Bryum pseudotriquetrum                 |   | l | 2   | 15   | 43  | 52  | 112  |
| Bryum subapiculatum aggr.              | 4 | s | 31  | 179  | 50  | 4   | 264  |
| Bryum turbinatum aggr.                 | 1 | l | 0   | 0    | 0   | 18  | 18   |
| Bryum weigeli                          | 1 | l | 0   | 0    | 5   | 3   | 8    |
| Buckia vaucheri                        | 1 | l | 0   | 1    | 2   | 4   | 7    |
| Buxbaumia viridis                      | 3 | s | 0   | 3    | 8   | 0   | 11   |
| Calliergon giganteum                   |   | l | 0   | 0    | 1   | 0   | 1    |
| Calliergonella cuspidata               | 3 | l | 67  | 214  | 72  | 8   | 361  |
| Calliergonella lindbergii              | 3 | l | 0   | 10   | 36  | 21  | 67   |
| Calypogeia fissa                       | 4 | s | 4   | 22   | 11  | 3   | 40   |
| Calypogeia integristipula              | 2 | s | 0   | 8    | 30  | 18  | 56   |
| Calypogeia muelleriana aggr.           | 3 | s | 1   | 30   | 94  | 42  | 167  |
| Calypogeia neesiana                    | 3 | s | 0   | 7    | 33  | 25  | 65   |
| Calypogeia suecica                     | 3 | s | 0   | 3    | 7   | 0   | 10   |
| Campyliadelphus chrysophyllus          |   | l | 15  | 42   | 60  | 92  | 209  |
| Campylium bambergeri                   | 1 | l | 0   | 0    | 0   | 5   | 5    |
| Campylium stellatum                    |   | l | 14  | 58   | 166 | 160 | 398  |
| Campylophyllopsis calcarea             |   | l | 11  | 28   | 15  | 22  | 76   |
| Campylophyllosum halleri               | 2 | l | 0   | 8    | 48  | 44  | 100  |
| Campylopus atrovirens                  | 4 | l | 0   | 0    | 1   | 2   | 3    |
| Campylopus flexuosus                   | 3 | s | 0   | 1    | 5   | 2   | 8    |
| Campylopus fragilis                    | 3 | s | 6   | 8    | 5   | 0   | 19   |

|                                |   |   |    |     |     |     |     |
|--------------------------------|---|---|----|-----|-----|-----|-----|
| Campylopus gracilis            |   | l | 0  | 1   | 2   | 7   | 10  |
| Campylopus introflexus         | 4 | s | 0  | 6   | 0   | 0   | 6   |
| Campylopus pilifer             |   | l | 2  | 0   | 0   | 0   | 2   |
| Campylopus pyriformis          | 3 | s | 1  | 2   | 2   | 3   | 8   |
| Campylopus subulatus           |   | s | 0  | 4   | 1   | 10  | 15  |
| Catoscopium nigratum           | 2 | l | 0  | 0   | 1   | 2   | 3   |
| Cephalozia albescens           | 1 | s | 0  | 0   | 0   | 28  | 28  |
| Cephalozia bicuspidata aggr.   | 2 | s | 1  | 30  | 96  | 83  | 210 |
| Cephalozia catenulata          | 3 | s | 0  | 4   | 1   | 0   | 5   |
| Cephalozia connivens           | 3 | s | 0  | 0   | 1   | 0   | 1   |
| Cephalozia leucantha           | 2 | s | 0  | 0   | 1   | 0   | 1   |
| Cephalozia lunulifolia         |   | s | 0  | 4   | 21  | 15  | 40  |
| Cephalozia pleniceps           | 2 | s | 0  | 0   | 2   | 4   | 6   |
| Cephaloziella divaricata       |   | s | 0  | 1   | 5   | 10  | 16  |
| Cephaloziella phyllacantha     | 3 | s | 0  | 0   | 1   | 0   | 1   |
| Cephaloziella rubella aggr.    |   | s | 0  | 1   | 0   | 1   | 2   |
| Ceratodon purpureus aggr.      |   | s | 16 | 83  | 64  | 61  | 224 |
| Chiloscyphus polyanthos aggr.  | 3 | l | 0  | 42  | 51  | 14  | 107 |
| Cinclidotus fontinaloides      | 4 | s | 0  | 0   | 1   | 0   | 1   |
| Cirriphyllum crassinervium     | 4 | l | 10 | 44  | 0   | 1   | 55  |
| Cirriphyllum piliferum         | 3 | l | 8  | 199 | 187 | 18  | 412 |
| Claopodium rostratum           |   | l | 0  | 4   | 0   | 0   | 4   |
| Clevea hyalina                 | 1 | l | 0  | 0   | 0   | 3   | 3   |
| Climacium dendroides           | 3 | l | 8  | 50  | 45  | 8   | 111 |
| Cololejeunea calcarea          | 3 | l | 0  | 12  | 4   | 2   | 18  |
| Conocephalum conicum aggr.     | 3 | l | 0  | 12  | 21  | 6   | 39  |
| Conostomum tetragonum          | 1 | l | 0  | 0   | 0   | 13  | 13  |
| Coscinodon cribrosus aggr.     | 3 | s | 10 | 1   | 0   | 1   | 12  |
| Cratoneuron filicinum aggr.    |   | l | 14 | 72  | 52  | 27  | 165 |
| Ctenidium molluscum            | 3 | l | 17 | 384 | 233 | 110 | 744 |
| Cynodontium gracilescens aggr. | 2 | s | 0  | 1   | 2   | 0   | 3   |
| Cynodontium polycarpon aggr.   | 3 | s | 0  | 11  | 16  | 8   | 35  |
| Cyrtomnium hymenophylloides    |   | l | 0  | 0   | 4   | 9   | 13  |
| Dichodontium pellucidum aggr.  |   | s | 1  | 24  | 55  | 75  | 155 |
| Dicranella crispa              |   | s | 0  | 1   | 0   | 0   | 1   |
| Dicranella grevilleana         |   | s | 0  | 0   | 1   | 8   | 9   |
| Dicranella heteromalla         | 3 | s | 15 | 89  | 32  | 17  | 153 |
| Dicranella schreberiana        | 3 | s | 1  | 7   | 4   | 1   | 13  |
| Dicranella staphylina          | 4 | s | 10 | 30  | 1   | 0   | 41  |
| Dicranella subulata            | 2 | s | 0  | 0   | 1   | 6   | 7   |
| Dicranella varia aggr.         | 3 | s | 1  | 9   | 11  | 5   | 26  |
| Dicranodontium denudatum       | 3 | l | 0  | 136 | 85  | 24  | 245 |
| Dicranoweisia cirrata          | 4 | s | 1  | 0   | 0   | 0   | 1   |
| Dicranum elongatum             | 1 | l | 0  | 0   | 0   | 3   | 3   |
| Dicranum fuscescens aggr.      | 2 | l | 1  | 0   | 13  | 15  | 29  |
| Dicranum majus                 | 3 | l | 3  | 0   | 2   | 0   | 5   |
| Dicranum montanum              | 3 | l | 48 | 198 | 182 | 31  | 459 |

|                                   |   |   |    |     |     |     |      |
|-----------------------------------|---|---|----|-----|-----|-----|------|
| Dicranum muehlenbeckii aggr.      |   | l | 0  | 1   | 19  | 127 | 147  |
| Dicranum polysetum                | 3 | l | 0  | 10  | 4   | 0   | 14   |
| Dicranum scoparium aggr.          | 3 | l | 16 | 371 | 475 | 203 | 1065 |
| Dicranum spurium                  | 3 | l | 0  | 0   | 0   | 1   | 1    |
| Dicranum tauricum                 | 2 | l | 3  | 14  | 16  | 0   | 33   |
| Dicranum viride                   | 4 | l | 3  | 2   | 0   | 0   | 5    |
| Didymodon acutus aggr.            | 4 | s | 1  | 2   | 0   | 0   | 3    |
| Didymodon fallax                  | 3 | s | 2  | 18  | 13  | 30  | 63   |
| Didymodon ferrugineus             | 3 | s | 0  | 20  | 15  | 12  | 47   |
| Didymodon giganteus               | 3 | l | 1  | 0   | 6   | 5   | 12   |
| Didymodon luridus                 |   | s | 0  | 1   | 0   | 1   | 2    |
| Didymodon rigidulus aggr.         | 3 | s | 1  | 27  | 13  | 12  | 53   |
| Didymodon spadiceus               | 4 | s | 0  | 1   | 1   | 0   | 2    |
| Didymodon vinealis aggr.          | 4 | s | 0  | 0   | 1   | 0   | 1    |
| Diobelonella palustris            | 2 | l | 0  | 0   | 7   | 6   | 13   |
| Diphyscium foliosum               |   | s | 7  | 12  | 7   | 42  | 68   |
| Diplophyllum albicans             |   | s | 11 | 20  | 8   | 6   | 45   |
| Diplophyllum obtusifolium aggr.   |   | l | 0  | 5   | 3   | 3   | 11   |
| Diplophyllum taxifolium           | 1 | s | 1  | 6   | 27  | 88  | 122  |
| Distichium capillaceum aggr.      | 1 | s | 4  | 18  | 56  | 244 | 322  |
| Ditrichum flexicaule aggr.        | 3 | s | 2  | 23  | 72  | 195 | 292  |
| Ditrichum heteromallum aggr.      | 1 | s | 0  | 1   | 8   | 37  | 46   |
| Ditrichum lineare                 |   | s | 0  | 0   | 0   | 2   | 2    |
| Ditrichum pallidum                | 4 | s | 0  | 1   | 0   | 0   | 1    |
| Ditrichum pusillum                | 3 | s | 0  | 0   | 1   | 0   | 1    |
| Drepanium fastigiatum             | 2 | l | 0  | 0   | 0   | 3   | 3    |
| Drepanocladus aduncus             |   | l | 3  | 0   | 1   | 0   | 4    |
| Drepanocladus polygamus           |   | l | 1  | 0   | 0   | 0   | 1    |
| Drepanocladus trifarius           |   | l | 2  | 0   | 0   | 2   | 4    |
| Encalypta alpina                  | 1 | l | 0  | 0   | 3   | 36  | 39   |
| Encalypta ciliata                 | 2 | l | 0  | 1   | 8   | 1   | 10   |
| Encalypta microstoma              |   | l | 0  | 3   | 0   | 3   | 6    |
| Encalypta rhaptocarpa aggr.       |   | l | 0  | 0   | 0   | 8   | 8    |
| Encalypta streptocarpa            | 3 | l | 11 | 63  | 40  | 27  | 141  |
| Encalypta vulgaris                | 1 | l | 0  | 1   | 2   | 16  | 19   |
| Entodon concinnus                 | 3 | l | 16 | 38  | 33  | 9   | 96   |
| Ephemerum serratum                | 4 | s | 0  | 17  | 4   | 1   | 22   |
| Eucladium verticillatum           | 4 | l | 0  | 2   | 3   | 2   | 7    |
| Eurhynchiastrium pulchellum aggr. | 1 | l | 6  | 15  | 15  | 45  | 81   |
| Eurhynchium striatum aggr.        | 3 | l | 56 | 499 | 64  | 1   | 620  |
| Fabronia ciliaris aggr.           |   | l | 1  | 0   | 0   | 0   | 1    |
| Fabronia pusilla                  | 5 | l | 1  | 0   | 0   | 0   | 1    |
| Fissidens adianthoides aggr.      | 3 | l | 29 | 207 | 148 | 78  | 462  |
| Fissidens bryoides aggr.          | 4 | s | 15 | 79  | 33  | 43  | 170  |
| Fissidens celticus                |   | s | 0  | 1   | 1   | 0   | 2    |
| Fissidens crassipes               | 4 | l | 0  | 0   | 1   | 0   | 1    |
| Fissidens exilis                  | 3 | s | 0  | 6   | 0   | 0   | 6    |

|                                  |   |   |    |     |     |     |     |
|----------------------------------|---|---|----|-----|-----|-----|-----|
| Fissidens osmundoides            |   | s | 0  | 1   | 1   | 19  | 21  |
| Fissidens taxifolius             | 3 | s | 46 | 462 | 173 | 43  | 724 |
| Fontinalis antipyretica          | 4 | l | 0  | 3   | 0   | 1   | 4   |
| Fossombronia foveolata           |   | s | 0  | 2   | 0   | 0   | 2   |
| Fossombronia pusilla aggr.       |   | l | 0  | 2   | 0   | 0   | 2   |
| Frullania dilatata               |   | l | 92 | 218 | 13  | 0   | 323 |
| Frullania fragilifolia           | 3 | l | 0  | 4   | 0   | 0   | 4   |
| Frullania jackii                 | 3 | l | 1  | 0   | 0   | 0   | 1   |
| Frullania tamarisci              | 3 | l | 2  | 7   | 2   | 0   | 11  |
| Funaria hygrometrica             | 4 | s | 9  | 11  | 1   | 2   | 23  |
| Grimmia alpestris                | 1 | l | 1  | 0   | 6   | 36  | 43  |
| Grimmia anodon                   |   | l | 0  | 0   | 0   | 1   | 1   |
| Grimmia caespiticia              |   | s | 0  | 3   | 0   | 8   | 11  |
| Grimmia donniana aggr.           | 1 | s | 0  | 0   | 0   | 12  | 12  |
| Grimmia elatior                  | 3 | s | 1  | 0   | 2   | 0   | 3   |
| Grimmia elongata                 |   | s | 0  | 0   | 0   | 1   | 1   |
| Grimmia funalis                  | 1 | s | 0  | 1   | 0   | 2   | 3   |
| Grimmia hartmanii aggr.          |   | l | 12 | 25  | 35  | 35  | 107 |
| Grimmia incurva                  |   | s | 0  | 0   | 0   | 3   | 3   |
| Grimmia longirostris             | 2 | l | 3  | 4   | 0   | 0   | 7   |
| Grimmia montana                  |   | s | 1  | 0   | 0   | 0   | 1   |
| Grimmia ovalis                   | 3 | s | 1  | 3   | 1   | 0   | 5   |
| Grimmia pulvinata                | 4 | s | 1  | 0   | 0   | 0   | 1   |
| Grimmia ramondii                 | 2 | l | 1  | 8   | 3   | 9   | 21  |
| Grimmia sessitana                |   | s | 0  | 3   | 4   | 87  | 94  |
| Grimmia tergestina aggr.         |   | s | 0  | 0   | 2   | 1   | 3   |
| Grimmia torquata                 | 2 | l | 0  | 1   | 0   | 0   | 1   |
| Grimmia trichophylla aggr.       |   | s | 1  | 3   | 2   | 0   | 6   |
| Gymnocolea inflata               | 2 | s | 0  | 0   | 0   | 11  | 11  |
| Gymnomitrium alpinum             |   | s | 0  | 0   | 0   | 1   | 1   |
| Gymnomitrium brevissimum         | 1 | s | 0  | 0   | 0   | 20  | 20  |
| Gymnomitrium commutatum          |   | s | 0  | 0   | 0   | 4   | 4   |
| Gymnomitrium concinnum           | 1 | s | 0  | 2   | 0   | 70  | 72  |
| Gymnomitrium corallioides        | 1 | s | 0  | 0   | 0   | 2   | 2   |
| Gymnostomum aeruginosum aggr.    | 3 | s | 0  | 13  | 17  | 25  | 55  |
| Gyroweisia tenuis                | 4 | s | 0  | 1   | 0   | 0   | 1   |
| Habrodon perpusillus             |   | l | 0  | 0   | 1   | 0   | 1   |
| Hamatocaulis vernicosus          | 3 | l | 3  | 0   | 0   | 0   | 3   |
| Hedwigia ciliata aggr.           | 3 | l | 26 | 26  | 1   | 0   | 53  |
| Herzogiella seligeri             | 3 | l | 25 | 226 | 78  | 0   | 329 |
| Herzogiella striatella           | 2 | l | 0  | 1   | 4   | 10  | 15  |
| Heterocladiella dimorpha         | 1 | l | 1  | 17  | 66  | 203 | 287 |
| Heterocladium heteropterum aggr. |   | l | 1  | 1   | 3   | 0   | 5   |
| Homalia trichomanoides           | 4 | l | 18 | 36  | 0   | 0   | 54  |
| Homalothecium lutescens          | 3 | l | 18 | 48  | 18  | 6   | 90  |
| Homalothecium philippeanum       | 3 | l | 0  | 13  | 0   | 0   | 13  |
| Homalothecium sericeum           | 4 | l | 31 | 35  | 7   | 0   | 73  |

|                              |   |   |     |      |     |     |      |
|------------------------------|---|---|-----|------|-----|-----|------|
| Homomallium incurvatum       | 3 | s | 15  | 81   | 35  | 18  | 149  |
| Hookeria lucens              | 3 | l | 0   | 15   | 6   | 0   | 21   |
| Hydrogonium amplexifolium    |   | s | 0   | 0    | 1   | 0   | 1    |
| Hydrogonium croceum          | 3 | s | 0   | 0    | 5   | 8   | 13   |
| Hygroamblystegium tenax      | 4 | l | 0   | 4    | 2   | 0   | 6    |
| Hygroamblystegium varium     | 4 | l | 9   | 8    | 5   | 0   | 22   |
| Hygrohypnum luridum          | 3 | l | 0   | 18   | 23  | 8   | 49   |
| Hylocomiadelphus triquetrus  | 3 | l | 19  | 227  | 373 | 84  | 703  |
| Hylocomiastrum pyrenaicum    | 2 | l | 0   | 28   | 120 | 122 | 270  |
| Hylocomiastrum umbratum      | 2 | l | 0   | 4    | 36  | 14  | 54   |
| Hylocomium splendens         | 3 | l | 12  | 216  | 334 | 129 | 691  |
| Hymenoloma crispulum aggr.   | 1 | s | 1   | 10   | 98  | 398 | 507  |
| Hymenostylium recurvirostrum |   | s | 0   | 2    | 3   | 5   | 10   |
| Hypnum cupressiforme aggr.   | 3 | l | 258 | 1103 | 261 | 50  | 1672 |
| Isopaches bicrenatus         | 3 | s | 0   | 0    | 0   | 1   | 1    |
| Isopaches decolorans         | 1 | s | 0   | 0    | 0   | 9   | 9    |
| Isopterygiopsis muelleriana  | 3 | l | 2   | 20   | 19  | 13  | 54   |
| Isopterygiopsis pulchella    | 2 | l | 0   | 3    | 7   | 12  | 22   |
| Isothecium alopecuroides     | 3 | l | 45  | 341  | 89  | 3   | 478  |
| Isothecium myosuroides       | 3 | l | 0   | 7    | 0   | 0   | 7    |
| Jochenia pallescens aggr.    | 3 | l | 0   | 0    | 4   | 0   | 4    |
| Jungermannia atrovirens      | 3 | s | 0   | 6    | 6   | 1   | 13   |
| Jungermannia pumila          | 3 | s | 0   | 0    | 0   | 1   | 1    |
| Kiaeria blyttii              |   | s | 0   | 0    | 0   | 17  | 17   |
| Kiaeria falcata              | 1 | s | 0   | 0    | 0   | 54  | 54   |
| Kiaeria starkei              | 1 | s | 0   | 0    | 1   | 95  | 96   |
| Kindbergia praelonga         | 4 | l | 0   | 14   | 2   | 0   | 16   |
| Lejeunea cavifolia aggr.     | 3 | l | 6   | 50   | 5   | 2   | 63   |
| Lepidozia reptans            | 3 | s | 0   | 83   | 89  | 15  | 187  |
| Leptobryum pyriforme         | 3 | s | 1   | 1    | 0   | 0   | 2    |
| Leptodictyum riparium        | 4 | l | 0   | 4    | 0   | 0   | 4    |
| Leptodontium styriacum       |   | s | 0   | 0    | 1   | 0   | 1    |
| Lescuraea incurvata          | 1 | l | 0   | 22   | 149 | 328 | 499  |
| Lescuraea mutabilis aggr.    | 1 | l | 1   | 7    | 58  | 127 | 193  |
| Lescuraea patens             | 1 | l | 2   | 1    | 5   | 25  | 33   |
| Lescuraea plicata            | 2 | s | 2   | 12   | 66  | 117 | 197  |
| Lescuraea radicata           |   | l | 0   | 3    | 8   | 9   | 20   |
| Leskea polycarpa             | 4 | l | 1   | 1    | 0   | 0   | 2    |
| Leucobryum glaucum aggr.     | 4 | l | 10  | 14   | 15  | 30  | 69   |
| Leucodon sciuroides          | 4 | l | 36  | 70   | 5   | 0   | 111  |
| Lewinskya affinis aggr.      | 4 | s | 30  | 88   | 1   | 0   | 119  |
| Lewinskya rupestris          | 3 | s | 5   | 5    | 0   | 0   | 10   |
| Lewinskya speciosa aggr.     |   | l | 7   | 20   | 3   | 0   | 30   |
| Lewinskya striata            | 3 | l | 20  | 60   | 10  | 0   | 90   |
| Liochlaena lanceolata        |   | s | 0   | 1    | 1   | 0   | 2    |
| Loeskeobryum brevirostre     | 4 | l | 4   | 3    | 1   | 0   | 8    |
| Lophocolea bidentata         | 3 | l | 7   | 81   | 63  | 4   | 155  |

|                               |   |   |    |     |     |    |     |
|-------------------------------|---|---|----|-----|-----|----|-----|
| Lophocolea heterophylla aggr. | 3 | s | 50 | 369 | 355 | 98 | 872 |
| Lophozia ascendens            |   | s | 0  | 1   | 19  | 3  | 23  |
| Lophozia sudetica             | 1 | s | 0  | 3   | 2   | 27 | 32  |
| Lophozia ventricosa aggr.     | 2 | s | 0  | 8   | 52  | 59 | 119 |
| Lophozia wenzelii             | 1 | s | 0  | 0   | 3   | 46 | 49  |
| Lophozioipsis excisa          | 3 | s | 0  | 1   | 0   | 11 | 12  |
| Marchantia polymorpha         |   | s | 2  | 0   | 1   | 4  | 7   |
| Marchantia quadrata           | 2 | l | 0  | 2   | 29  | 38 | 69  |
| Marsupella emarginata aggr.   | 2 | s | 0  | 3   | 0   | 1  | 4   |
| Marsupella funckii            | 2 | s | 1  | 0   | 0   | 2  | 3   |
| Marsupella sphacelata         | 1 | s | 0  | 0   | 0   | 1  | 1   |
| Marsupella sprucei            | 1 | s | 0  | 1   | 0   | 2  | 3   |
| Meesia uliginosa aggr.        | 1 | l | 0  | 0   | 0   | 36 | 36  |
| Mesoptychia bantriensis aggr. | 3 | s | 0  | 16  | 35  | 60 | 111 |
| Mesoptychia heterocolpos      | 2 | s | 0  | 0   | 1   | 11 | 12  |
| Metzgeria conjugata           | 4 | l | 5  | 10  | 1   | 0  | 16  |
| Metzgeria furcata             | 3 | l | 78 | 370 | 55  | 1  | 504 |
| Metzgeria pubescens           | 3 | s | 3  | 17  | 1   | 0  | 21  |
| Metzgeria temperata           |   | l | 1  | 9   | 0   | 0  | 10  |
| Metzgeria violacea            |   | l | 1  | 5   | 0   | 0  | 6   |
| Microeurhynchium pumilum      |   | l | 0  | 0   | 1   | 0  | 1   |
| Microhypnum sauteri           |   | l | 0  | 0   | 5   | 4  | 9   |
| Microlejeunea ulicina         | 4 | l | 1  | 6   | 0   | 0  | 7   |
| Mnium hornum                  | 4 | l | 0  | 3   | 2   | 1  | 6   |
| Mnium lycopodioides           |   | l | 1  | 2   | 2   | 1  | 6   |
| Mnium marginatum              | 3 | l | 0  | 16  | 15  | 11 | 42  |
| Mnium spinosum aggr.          |   | l | 0  | 90  | 177 | 88 | 355 |
| Mnium stellare                | 3 | l | 5  | 25  | 27  | 25 | 82  |
| Mnium thomsonii               | 3 | l | 0  | 15  | 31  | 27 | 73  |
| Moerckia blyttii              | 1 | l | 0  | 0   | 1   | 25 | 26  |
| Moerckia hibernica aggr.      | 3 | l | 0  | 0   | 0   | 1  | 1   |
| Myurella julacea              | 1 | s | 0  | 5   | 15  | 47 | 67  |
| Myurella tenerrima            | 2 | s | 0  | 0   | 0   | 6  | 6   |
| Nardia geoscyphus             | 1 | s | 0  | 0   | 0   | 5  | 5   |
| Nardia scalaris               | 1 | s | 0  | 3   | 3   | 25 | 31  |
| Neckera besseri               |   | l | 1  | 3   | 0   | 0  | 4   |
| Neckera complanata            | 4 | l | 32 | 77  | 3   | 0  | 112 |
| Neckera crispa                | 3 | l | 5  | 48  | 7   | 0  | 60  |
| Neckera pumila                |   | l | 1  | 6   | 0   | 0  | 7   |
| Nogopterium gracile           | 3 | l | 1  | 0   | 0   | 0  | 1   |
| Nowellia curvifolia           | 3 | s | 0  | 12  | 3   | 0  | 15  |
| Nyholmiella obtusifolia       | 4 | s | 8  | 7   | 0   | 0  | 15  |
| Obtusifolium obtusum          | 2 | l | 0  | 4   | 25  | 8  | 37  |
| Odontoschisma elongatum       |   | s | 0  | 0   | 0   | 1  | 1   |
| Odontoschisma fluitans        | 3 | s | 0  | 0   | 1   | 0  | 1   |
| Oligotrichum hercynicum       | 1 | s | 0  | 0   | 2   | 29 | 31  |
| Oncophorus virens aggr.       | 1 | l | 1  | 0   | 2   | 23 | 26  |

|                                  |   |   |     |     |     |     |     |
|----------------------------------|---|---|-----|-----|-----|-----|-----|
| Orthothecium intricatum          | 3 | l | 0   | 9   | 43  | 77  | 129 |
| Orthothecium rufescens           | 3 | l | 0   | 0   | 13  | 14  | 27  |
| Orthotrichum anomalum            | 4 | s | 0   | 12  | 3   | 0   | 15  |
| Orthotrichum diaphanum           | 4 | s | 9   | 8   | 0   | 0   | 17  |
| Orthotrichum pallens             |   | s | 4   | 14  | 6   | 1   | 25  |
| Orthotrichum patens              |   | s | 4   | 6   | 0   | 0   | 10  |
| Orthotrichum pumilum aggr.       | 3 | s | 2   | 7   | 2   | 0   | 11  |
| Orthotrichum rogeri              |   | l | 0   | 1   | 0   | 0   | 1   |
| Orthotrichum scanicum            |   | s | 0   | 1   | 0   | 0   | 1   |
| Orthotrichum stramineum          | 3 | s | 4   | 14  | 1   | 0   | 19  |
| Oxyrrhynchium hians aggr.        |   | s | 147 | 661 | 126 | 9   | 943 |
| Oxyrrhynchium schleicheri        |   | l | 0   | 4   | 3   | 0   | 7   |
| Oxystegus tenuirostris aggr.     | 3 | s | 15  | 117 | 117 | 96  | 345 |
| Palustriella commutata aggr.     | 3 | l | 2   | 19  | 33  | 109 | 163 |
| Palustriella decipiens           | 2 | l | 0   | 2   | 23  | 14  | 39  |
| Paraleucobryum enerve            | 1 | l | 0   | 1   | 3   | 38  | 42  |
| Paraleucobryum longifolium aggr. | 3 | l | 2   | 23  | 24  | 21  | 70  |
| Pedinophyllum interruptum        | 3 | l | 0   | 14  | 11  | 4   | 29  |
| Pellia endiviifolia              | 3 | s | 2   | 20  | 16  | 1   | 39  |
| Pellia epiphylla aggr.           | 3 | s | 1   | 20  | 28  | 24  | 73  |
| Peltolepis quadrata              | 1 | l | 0   | 0   | 1   | 4   | 5   |
| Phascum cuspidatum               | 4 | s | 19  | 90  | 4   | 1   | 114 |
| Philonotis calcarea              | 3 | l | 0   | 1   | 6   | 9   | 16  |
| Philonotis fontana aggr.         |   | l | 0   | 0   | 10  | 10  | 20  |
| Philonotis seriata               | 1 | l | 0   | 0   | 0   | 6   | 6   |
| Physcomitrium pyriforme          | 4 | s | 6   | 4   | 0   | 0   | 10  |
| Plagiobryum zieri                | 3 | l | 0   | 0   | 1   | 1   | 2   |
| Plagiochila asplenioides aggr.   | 3 | l | 18  | 339 | 360 | 168 | 885 |
| Plagiomnium affine aggr.         | 3 | l | 42  | 303 | 275 | 35  | 655 |
| Plagiomnium cuspidatum           | 3 | l | 17  | 43  | 15  | 3   | 78  |
| Plagiomnium rostratum            | 3 | l | 10  | 83  | 35  | 9   | 137 |
| Plagiomnium undulatum            | 3 | l | 40  | 362 | 87  | 0   | 489 |
| Plagiopus oederianus             | 3 | l | 0   | 2   | 16  | 1   | 19  |
| Plagiothecium cavifolium aggr.   | 3 | l | 7   | 46  | 32  | 36  | 121 |
| Plagiothecium denticulatum aggr. | 3 | l | 5   | 159 | 238 | 100 | 502 |
| Plagiothecium laetum aggr.       | 3 | l | 24  | 231 | 215 | 42  | 512 |
| Plagiothecium nemorale           |   | l | 25  | 94  | 13  | 5   | 137 |
| Plagiothecium platyphyllum       |   | l | 0   | 0   | 2   | 0   | 2   |
| Plagiothecium undulatum          | 3 | l | 0   | 12  | 17  | 1   | 30  |
| Plasteurhynchium striatulum      | 3 | l | 11  | 10  | 1   | 0   | 22  |
| Platydictya jungermannioides     | 2 | l | 1   | 18  | 49  | 49  | 117 |
| Platygyrium repens               | 4 | l | 58  | 81  | 6   | 0   | 145 |
| Platyhypnum duriusculum          | 1 | l | 0   | 0   | 0   | 2   | 2   |
| Platyhypnum molle                |   | l | 0   | 0   | 0   | 1   | 1   |
| Pleuridium acuminatum            |   | s | 2   | 6   | 1   | 2   | 11  |
| Pleuridium subulatum             | 4 | s | 0   | 9   | 3   | 0   | 12  |
| Pleurochaete squarrosa           | 4 | l | 1   | 0   | 0   | 0   | 1   |

|                                   |   |   |    |     |     |     |     |
|-----------------------------------|---|---|----|-----|-----|-----|-----|
| Pleurozium schreberi              | 2 | l | 4  | 62  | 185 | 88  | 339 |
| Pohlia andalusica                 |   | s | 0  | 0   | 1   | 14  | 15  |
| Pohlia andrewsii                  |   | s | 0  | 0   | 0   | 12  | 12  |
| Pohlia annotina                   |   | s | 0  | 0   | 2   | 4   | 6   |
| Pohlia camptotrachela             |   | s | 0  | 0   | 3   | 0   | 3   |
| Pohlia cruda                      | 1 | s | 3  | 22  | 72  | 136 | 233 |
| Pohlia drummondii                 |   | s | 0  | 0   | 3   | 22  | 25  |
| Pohlia elongata                   |   | s | 0  | 2   | 3   | 5   | 10  |
| Pohlia filum                      |   | s | 0  | 0   | 1   | 19  | 20  |
| Pohlia longicolla                 | 2 | s | 0  | 0   | 0   | 1   | 1   |
| Pohlia ludwigii                   | 1 | l | 0  | 0   | 0   | 3   | 3   |
| Pohlia lutescens                  | 3 | s | 1  | 0   | 1   | 0   | 2   |
| Pohlia melanodon                  | 3 | s | 0  | 2   | 1   | 0   | 3   |
| Pohlia nutans aggr.               |   | s | 0  | 2   | 28  | 32  | 62  |
| Pohlia obtusifolia                | 1 | s | 0  | 0   | 0   | 2   | 2   |
| Pohlia proligera                  |   | s | 0  | 0   | 0   | 1   | 1   |
| Pohlia wahlenbergii               |   | l | 2  | 8   | 45  | 52  | 107 |
| Polytrichum alpinum               | 1 | l | 0  | 24  | 106 | 217 | 347 |
| Polytrichum commune               | 3 | l | 2  | 4   | 19  | 32  | 57  |
| Polytrichum formosum aggr.        | 3 | l | 34 | 282 | 205 | 52  | 573 |
| Polytrichum juniperinum aggr.     | 1 | l | 0  | 17  | 58  | 289 | 364 |
| Polytrichum longisetum            | 3 | l | 0  | 1   | 11  | 1   | 13  |
| Polytrichum nanum aggr.           | 3 | s | 2  | 15  | 3   | 2   | 22  |
| Polytrichum piliferum             | 1 | l | 3  | 4   | 26  | 290 | 323 |
| Polytrichum sexangulare           | 1 | l | 0  | 0   | 0   | 107 | 107 |
| Polytrichum urnigerum             | 2 | s | 2  | 8   | 30  | 85  | 125 |
| Porella arboris-vitae             | 3 | l | 4  | 0   | 0   | 0   | 4   |
| Porella cordaeana                 | 2 | l | 0  | 3   | 1   | 0   | 4   |
| Porella platyphylla aggr.         |   | l | 43 | 100 | 19  | 13  | 175 |
| Pseudanomodon attenuatus          | 4 | l | 35 | 91  | 1   | 1   | 128 |
| Pseudephemerum nitidum            | 3 | s | 0  | 2   | 0   | 0   | 2   |
| Pseudoamblystegium subtile        | 3 | s | 4  | 22  | 2   | 0   | 28  |
| Pseudocrossidium hornschiuchianum | 4 | s | 0  | 1   | 0   | 0   | 1   |
| Pseudoleskeella catenulata        | 3 | l | 1  | 64  | 43  | 30  | 138 |
| Pseudoleskeella nervosa           | 3 | l | 13 | 72  | 34  | 2   | 121 |
| Pseudoleskeella rupestris         |   | l | 0  | 0   | 1   | 0   | 1   |
| Pseudoleskeella tectorum          |   | l | 0  | 4   | 1   | 0   | 5   |
| Pseudoscleropodium purum          | 3 | l | 24 | 98  | 13  | 2   | 137 |
| Pseudostereodon procerrimus       | 1 | l | 0  | 0   | 1   | 5   | 6   |
| Pseudotaxiphyllum elegans         | 3 | s | 20 | 63  | 20  | 12  | 115 |
| Pterigynandrum filiforme          | 3 | l | 15 | 204 | 145 | 45  | 409 |
| Ptilidium ciliare aggr.           | 3 | l | 0  | 28  | 62  | 13  | 103 |
| Ptilium crista-castrensis         | 3 | s | 0  | 5   | 19  | 6   | 30  |
| Pulviger a lyellii                | 3 | l | 35 | 93  | 4   | 0   | 132 |
| Pylaisia polyantha                | 4 | l | 15 | 19  | 3   | 0   | 37  |
| Racomitrium aciculare             | 2 | s | 0  | 1   | 0   | 0   | 1   |
| Racomitrium aquaticum             | 3 | s | 12 | 6   | 2   | 2   | 22  |

|                                  |   |   |     |     |     |     |     |
|----------------------------------|---|---|-----|-----|-----|-----|-----|
| Racomitrium canescens aggr.      | 1 | s | 8   | 9   | 48  | 257 | 322 |
| Racomitrium fasciculare          |   | l | 0   | 3   | 0   | 2   | 5   |
| Racomitrium heterostichum aggr.  | 1 | s | 2   | 18  | 25  | 156 | 201 |
| Racomitrium lanuginosum          | 1 | l | 0   | 0   | 1   | 12  | 13  |
| Racomitrium macounii             |   | s | 0   | 0   | 0   | 10  | 10  |
| Racomitrium microcarpon          |   | s | 0   | 0   | 0   | 14  | 14  |
| Radula complanata                | 3 | l | 115 | 501 | 242 | 125 | 983 |
| Rhabdoweisia crenulata           | 3 | s | 0   | 3   | 0   | 1   | 4   |
| Rhabdoweisia crispata            | 3 | s | 4   | 3   | 1   | 1   | 9   |
| Rhabdoweisia fugax               |   | s | 9   | 22  | 20  | 22  | 73  |
| Rhizomnium magnifolium           |   | l | 0   | 0   | 9   | 5   | 14  |
| Rhizomnium pseudopunctatum       | 2 | l | 0   | 0   | 4   | 0   | 4   |
| Rhizomnium punctatum             | 3 | l | 9   | 268 | 245 | 30  | 552 |
| Rhodobryum roseum aggr.          | 3 | s | 5   | 29  | 69  | 14  | 117 |
| Rhynchostegiella tenella         | 4 | l | 2   | 1   | 0   | 0   | 3   |
| Rhynchostegium confertum         | 4 | l | 3   | 3   | 0   | 0   | 6   |
| Rhynchostegium megapolitanum     | 4 | l | 4   | 2   | 0   | 0   | 6   |
| Rhynchostegium murale            | 3 | l | 13  | 263 | 164 | 20  | 460 |
| Rhynchostegium riparioides       | 4 | l | 1   | 8   | 0   | 0   | 9   |
| Rhynchostegium rotundifolium     | 4 | l | 0   | 1   | 0   | 0   | 1   |
| Rhytidiadelphus loreus           | 3 | l | 0   | 54  | 89  | 0   | 143 |
| Rhytidiadelphus squarrosus aggr. | 3 | l | 16  | 229 | 258 | 24  | 527 |
| Rhytidium rugosum                | 3 | l | 7   | 14  | 20  | 25  | 66  |
| Riccardia chamedryfolia          |   | s | 0   | 2   | 2   | 0   | 4   |
| Riccardia latifrons              | 3 | s | 0   | 2   | 0   | 0   | 2   |
| Riccardia multifida              | 3 | s | 0   | 14  | 18  | 0   | 32  |
| Riccardia palmata                | 3 | s | 0   | 13  | 15  | 0   | 28  |
| Roaldia revoluta aggr.           | 1 | l | 1   | 1   | 2   | 16  | 20  |
| Sanionia uncinata                | 2 | l | 0   | 90  | 291 | 297 | 678 |
| Sarmentypnum exannulatum         | 2 | l | 0   | 0   | 4   | 3   | 7   |
| Sauteria alpina                  | 2 | l | 0   | 0   | 0   | 1   | 1   |
| Scapania aequiloba aggr.         |   | l | 0   | 24  | 77  | 63  | 164 |
| Scapania curta                   | 3 | s | 0   | 0   | 0   | 1   | 1   |
| Scapania cuspiduligera           |   | s | 0   | 0   | 2   | 30  | 32  |
| Scapania gymnostomophila         |   | s | 0   | 0   | 2   | 2   | 4   |
| Scapania mucronata               |   | s | 0   | 0   | 1   | 0   | 1   |
| Scapania nemorea                 | 3 | l | 6   | 8   | 3   | 0   | 17  |
| Scapania paludicola              | 2 | s | 0   | 0   | 2   | 0   | 2   |
| Scapania scandica                |   | s | 0   | 0   | 1   | 0   | 1   |
| Scapania uliginosa aggr.         | 2 | l | 0   | 0   | 0   | 4   | 4   |
| Scapania umbrosa                 | 3 | s | 0   | 0   | 8   | 1   | 9   |
| Scapania undulata aggr.          | 2 | l | 0   | 0   | 3   | 1   | 4   |
| Schistidium apocarpum aggr.      |   | s | 33  | 250 | 190 | 215 | 688 |
| Schistidium flaccidum            |   | s | 0   | 0   | 0   | 1   | 1   |
| Schistidium rivulare aggr.       | 1 | l | 0   | 0   | 0   | 12  | 12  |
| Schistidium sordidum             |   | s | 0   | 0   | 0   | 4   | 4   |
| Schistidium trichodon            |   | s | 0   | 4   | 11  | 4   | 19  |

|                               |   |   |    |     |     |     |     |
|-------------------------------|---|---|----|-----|-----|-----|-----|
| Schistochilopsis incisa aggr. | 1 | s | 0  | 1   | 14  | 40  | 55  |
| Sciuro-Hypnum flotowianum     |   | l | 2  | 6   | 0   | 0   | 8   |
| Sciuro-Hypnum plumosum        | 3 | l | 1  | 0   | 0   | 0   | 1   |
| Sciuro-Hypnum populeum        | 3 | l | 69 | 211 | 72  | 7   | 359 |
| Sciuro-Hypnum reflexum aggr.  |   | l | 14 | 85  | 313 | 328 | 740 |
| Scorpidium revolvens aggr.    | 3 | l | 4  | 0   | 4   | 9   | 17  |
| Scorpidium scorpioides        | 4 | l | 2  | 0   | 0   | 1   | 3   |
| Seligeria donniana            | 3 | s | 0  | 1   | 0   | 2   | 3   |
| Seligeria pusilla             | 3 | s | 0  | 1   | 2   | 1   | 4   |
| Sematophyllum demissum        | 5 | s | 2  | 0   | 0   | 0   | 2   |
| Serpoleskea confervoides      | 3 | l | 4  | 24  | 6   | 1   | 35  |
| Solenostoma confertissimum    | 1 | s | 0  | 0   | 2   | 2   | 4   |
| Solenostoma gracillimum       | 3 | s | 0  | 0   | 2   | 5   | 7   |
| Solenostoma obovatum          |   | s | 0  | 0   | 0   | 6   | 6   |
| Solenostoma sphaerocarpum     | 1 | s | 0  | 0   | 0   | 1   | 1   |
| Sphagnum capillifolium aggr.  | 3 | l | 0  | 1   | 6   | 1   | 8   |
| Sphagnum compactum            | 2 | l | 0  | 0   | 0   | 7   | 7   |
| Sphagnum cuspidatum           | 3 | l | 0  | 0   | 1   | 0   | 1   |
| Sphagnum denticulatum aggr.   | 3 | l | 0  | 1   | 0   | 0   | 1   |
| Sphagnum girgensohnii         | 3 | l | 0  | 5   | 8   | 1   | 14  |
| Sphagnum magellanicum aggr.   | 3 | l | 0  | 0   | 1   | 1   | 2   |
| Sphagnum majus                | 2 | l | 0  | 0   | 3   | 0   | 3   |
| Sphagnum palustre aggr.       | 4 | l | 0  | 0   | 1   | 1   | 2   |
| Sphagnum papillosum           | 3 | l | 0  | 0   | 4   | 0   | 4   |
| Sphagnum quinquefarium        | 3 | l | 0  | 3   | 11  | 0   | 14  |
| Sphagnum recurvum aggr.       | 3 | l | 0  | 0   | 5   | 0   | 5   |
| Sphagnum russowii             | 3 | l | 0  | 0   | 2   | 0   | 2   |
| Sphagnum squarrosum           | 3 | l | 0  | 4   | 0   | 0   | 4   |
| Sphagnum subsecundum          | 2 | l | 0  | 0   | 4   | 0   | 4   |
| Sphagnum tenellum             | 3 | l | 0  | 0   | 1   | 0   | 1   |
| Sphenobolus minutus           | 2 | s | 0  | 8   | 29  | 42  | 79  |
| Splachnum ampullaceum         |   | l | 0  | 0   | 0   | 1   | 1   |
| Splachnum sphaericum          | 2 | l | 0  | 0   | 0   | 2   | 2   |
| Stegonia latifolia            | 1 | s | 0  | 0   | 0   | 4   | 4   |
| Stereodon callichrous         | 2 | l | 0  | 2   | 15  | 5   | 22  |
| Stereodon hamulosus           |   | l | 0  | 0   | 0   | 3   | 3   |
| Stereodon pratensis           | 3 | l | 0  | 0   | 1   | 0   | 1   |
| Straminergon stramineum       | 3 | l | 0  | 1   | 4   | 0   | 5   |
| Streblotrichum convolutum     | 4 | s | 4  | 13  | 1   | 2   | 20  |
| Syntrichia montana            | 4 | s | 0  | 1   | 0   | 0   | 1   |
| Syntrichia papillosa          | 4 | s | 26 | 18  | 0   | 0   | 44  |
| Syntrichia ruralis aggr.      |   | s | 14 | 78  | 72  | 283 | 447 |
| Syntrichia virescens          |   | s | 3  | 0   | 0   | 1   | 4   |
| Syzygiella autumnalis         | 3 | s | 0  | 2   | 2   | 0   | 4   |
| Taxiphyllum wissgrillii       | 3 | l | 2  | 14  | 0   | 0   | 16  |
| Tayloria acuminata            |   | s | 0  | 0   | 0   | 2   | 2   |
| Tayloria froelichiana         | 1 | l | 0  | 0   | 0   | 14  | 14  |

|                            |   |   |    |     |     |     |      |
|----------------------------|---|---|----|-----|-----|-----|------|
| Tayloria serrata aggr.     | 2 | s | 0  | 2   | 32  | 21  | 55   |
| Tetraphis pellucida        | 3 | s | 7  | 140 | 114 | 11  | 272  |
| Tetraplodon mnioides       |   | l | 0  | 0   | 0   | 1   | 1    |
| Tetradontium ovatum        |   | s | 0  | 0   | 1   | 0   | 1    |
| Tetradontium repandum      |   | s | 0  | 0   | 0   | 1   | 1    |
| Thamnobryum alopecurum     | 4 | l | 6  | 3   | 0   | 0   | 9    |
| Thamnobryum neckeroides    |   | l | 0  | 1   | 0   | 0   | 1    |
| Thuidium recognitum aggr.  |   | l | 49 | 151 | 116 | 22  | 338  |
| Thuidium tamariscinum      | 3 | l | 48 | 352 | 71  | 1   | 472  |
| Timmia austriaca           | 2 | l | 0  | 0   | 6   | 15  | 21   |
| Timmia bavarica            | 2 | s | 0  | 2   | 5   | 2   | 9    |
| Timmia norvegica aggr.     |   | s | 0  | 0   | 0   | 3   | 3    |
| Timmiella anomala aggr.    |   | s | 0  | 1   | 0   | 0   | 1    |
| Tomentypnum nitens         | 3 | l | 0  | 0   | 0   | 1   | 1    |
| Tortella fragilis          | 1 | s | 1  | 0   | 2   | 27  | 30   |
| Tortella inclinata aggr.   | 4 | s | 2  | 2   | 7   | 36  | 47   |
| Tortella tortuosa aggr.    | 3 | l | 26 | 363 | 301 | 358 | 1048 |
| Tortula hoppeana           | 1 | l | 0  | 8   | 22  | 181 | 211  |
| Tortula modica             | 4 | s | 0  | 1   | 0   | 0   | 1    |
| Tortula mucronifolia       |   | s | 0  | 0   | 1   | 0   | 1    |
| Tortula muralis            | 4 | s | 2  | 8   | 2   | 1   | 13   |
| Tortula subulata aggr.     |   | s | 9  | 34  | 15  | 12  | 70   |
| Tortula truncata           | 4 | s | 1  | 10  | 4   | 0   | 15   |
| Trichodon cylindricus      | 3 | s | 2  | 19  | 14  | 6   | 41   |
| Trichostomum brachydontium | 3 | l | 0  | 2   | 2   | 2   | 6    |
| Trichostomum crispulum     | 3 | s | 1  | 6   | 7   | 7   | 21   |
| Trilophozia quinquedentata | 2 | l | 0  | 13  | 18  | 29  | 60   |
| Tritomaria exsecta         | 3 | s | 0  | 18  | 35  | 6   | 59   |
| Tritomaria scitula         | 1 | s | 0  | 0   | 0   | 2   | 2    |
| Ulota coarctata            | 3 | l | 1  | 1   | 0   | 0   | 2    |
| Ulota crispa aggr.         | 4 | l | 44 | 142 | 14  | 0   | 200  |
| Ulota hutchinsiae          | 3 | s | 1  | 0   | 0   | 0   | 1    |
| Warnstorfia fluitans       | 3 | l | 0  | 0   | 1   | 0   | 1    |
| Weissia brachycarpa        | 4 | l | 1  | 7   | 3   | 3   | 14   |
| Weissia condensa           | 3 | s | 4  | 5   | 1   | 0   | 10   |
| Weissia controversa        | 3 | s | 10 | 32  | 20  | 11  | 73   |
| Weissia longifolia         | 4 | l | 3  | 22  | 4   | 0   | 29   |
| Weissia rostellata         |   | l | 1  | 2   | 2   | 2   | 7    |
| Weissia squarrosa          |   | l | 0  | 1   | 0   | 0   | 1    |
| Weissia wimmeriana         |   | s | 0  | 1   | 2   | 0   | 3    |
| Zygodon conoideus          |   | s | 0  | 1   | 0   | 0   | 1    |
| Zygodon viridissimus aggr. | 4 | s | 5  | 16  | 0   | 1   | 22   |

**Table S2. List of recorded vascular plant species with Landolt (et al. 2010) indicator value for temperature (T) life strategy type (s = short-lived, l = long-lived) and number of records (N) in each elevational zone and in total.** Species that can hardly be distinguished are fused to aggregate species (aggr.) which were treated as species in the analyses. A reference list of aggregate species is available at the GitHub-Repository <https://github.com/TobiasRoth/moss-and-vascular-plants>. To assign life strategy types to aggregate species not classified by Landolt et al. (2010), we used the category of the most common species of the aggregate based on occurrence data provided by Info Flora, the national data and information center on the Swiss flora ([www.infoflora.ch](http://www.infoflora.ch)). Reference: Landolt E, Bäumler B, Erhardt A et al (2010) Flora Indicativa. Ecological indicator values and biological attributes of the flora of Switzerland and the Alps. Verlag Paul Haupt, Bern.

| Species                           | T   | Life strategy | N colline | N montane | N subalpine | N alpine | N   |
|-----------------------------------|-----|---------------|-----------|-----------|-------------|----------|-----|
| <i>Abies alba</i>                 | 3   | l             | 59        | 612       | 108         | 0        | 779 |
| <i>Acer campestre</i>             | 4   | l             | 29        | 32        | 0           | 0        | 61  |
| <i>Acer opalus</i>                | 4.5 | l             | 12        | 1         | 0           | 0        | 13  |
| <i>Acer platanoides</i>           | 4   | l             | 16        | 65        | 2           | 0        | 83  |
| <i>Acer pseudoplatanus</i>        | 3   | l             | 134       | 698       | 158         | 3        | 993 |
| <i>Achillea atrata</i>            | 1   |               | 0         | 0         | 0           | 58       | 58  |
| <i>Achillea erba-rotta</i>        | 1   |               | 0         | 0         | 5           | 52       | 57  |
| <i>Achillea macrophylla</i>       | 2   | l             | 0         | 18        | 17          | 8        | 43  |
| <i>Achillea millefolium</i> aggr. | 3   | l             | 42        | 269       | 160         | 11       | 482 |
| <i>Achillea nana</i>              | 1   |               | 0         | 0         | 0           | 39       | 39  |
| <i>Achnatherum calamagrostis</i>  | 3   |               | 0         | 7         | 4           | 0        | 11  |
| <i>Acinos alpinus</i>             | 2   |               | 0         | 10        | 31          | 15       | 56  |
| <i>Acinos arvensis</i>            | 4   | s             | 3         | 0         | 2           | 1        | 6   |
| <i>Aconitum lycoctonum</i>        | 2.5 | l             | 4         | 24        | 49          | 6        | 83  |
| <i>Aconitum napellus</i>          | 2.5 | l             | 0         | 5         | 45          | 56       | 106 |
| <i>Aconitum variegatum</i>        | 2   | l             | 0         | 0         | 8           | 0        | 8   |
| <i>Actaea spicata</i>             | 3   | l             | 2         | 15        | 10          | 0        | 27  |
| <i>Adenostyles alliariae</i>      | 2   | l             | 0         | 16        | 139         | 41       | 196 |
| <i>Adenostyles alpina</i>         | 2   |               | 0         | 61        | 60          | 12       | 133 |
| <i>Adenostyles leucophylla</i>    | 1   |               | 0         | 0         | 0           | 5        | 5   |
| <i>Adoxa moschatellina</i>        | 3   |               | 1         | 17        | 5           | 0        | 23  |
| <i>Aegopodium podagraria</i>      | 3.5 | l             | 18        | 86        | 6           | 0        | 110 |
| <i>Aesculus hippocastanum</i>     | 4   | l             | 0         | 1         | 0           | 0        | 1   |
| <i>Aethusa cynapium</i>           | 3   | s             | 0         | 2         | 0           | 0        | 2   |
| <i>Agrimonia eupatoria</i>        | 4   | l             | 11        | 14        | 0           | 0        | 25  |
| <i>Agrostis alpina</i>            | 1.5 |               | 0         | 0         | 15          | 95       | 110 |
| <i>Agrostis canina</i>            | 3.5 |               | 0         | 1         | 1           | 0        | 2   |

|                                   |     |   |     |     |     |     |      |
|-----------------------------------|-----|---|-----|-----|-----|-----|------|
| Agrostis capillaris               | 3   |   | 23  | 307 | 352 | 82  | 764  |
| Agrostis gigantea                 | 3.5 | l | 5   | 17  | 29  | 20  | 71   |
| Agrostis rupestris                | 1   |   | 0   | 1   | 8   | 346 | 355  |
| Agrostis schleicheri              | 2.5 |   | 0   | 0   | 1   | 1   | 2    |
| Agrostis schraderiana             | 1.5 |   | 0   | 12  | 62  | 206 | 280  |
| Agrostis stolonifera              | 3   |   | 110 | 363 | 106 | 32  | 611  |
| Ailanthus altissima               | 4.5 | s | 2   | 0   | 0   | 0   | 2    |
| Ajuga pyramidalis                 | 2   |   | 0   | 4   | 38  | 29  | 71   |
| Ajuga reptans                     | 3.5 |   | 76  | 510 | 197 | 14  | 797  |
| Alchemilla alpina bdm-aggr.       | 2   |   | 0   | 30  | 139 | 139 | 308  |
| Alchemilla pentaphyllea bdm-aggr. | 1   |   | 0   | 0   | 0   | 110 | 110  |
| Alchemilla vulgaris bdm-aggr.     |     | l | 8   | 495 | 381 | 236 | 1120 |
| Alliaria petiolata                | 4   | l | 29  | 14  | 0   | 0   | 43   |
| Allium carinatum                  | 3.5 |   | 3   | 2   | 9   | 0   | 14   |
| Allium lusitanicum                | 3   |   | 0   | 2   | 5   | 0   | 7    |
| Allium oleraceum                  | 3.5 |   | 6   | 9   | 1   | 0   | 16   |
| Allium schoenoprasum              | 2.5 |   | 0   | 0   | 12  | 7   | 19   |
| Allium sphaerocephalon            | 4.5 |   | 0   | 1   | 1   | 0   | 2    |
| Allium ursinum                    | 3.5 |   | 22  | 40  | 9   | 0   | 71   |
| Allium victorialis                | 2   |   | 0   | 0   | 5   | 0   | 5    |
| Allium vineale                    | 4   | s | 1   | 2   | 0   | 0   | 3    |
| Alnus glutinosa                   | 4   | l | 0   | 2   | 0   | 0   | 2    |
| Alnus incana                      | 3   | l | 3   | 30  | 5   | 0   | 38   |
| Alnus viridis                     | 2   | l | 0   | 20  | 86  | 11  | 117  |
| Alopecurus pratensis              | 3.5 | l | 32  | 232 | 26  | 0   | 290  |
| Amaranthus blitum aggr.           | 4.5 | s | 2   | 4   | 0   | 0   | 6    |
| Amaranthus graecizans             | 5   | s | 0   | 1   | 0   | 0   | 1    |
| Amaranthus retroflexus            | 4   | s | 2   | 1   | 0   | 0   | 3    |
| Amelanchier ovalis                | 3   | l | 4   | 9   | 0   | 0   | 13   |
| Anagallis arvensis                | 4   | s | 1   | 1   | 0   | 0   | 2    |
| Androsace alpina                  | 1   |   | 0   | 0   | 0   | 30  | 30   |
| Androsace chamaejasme             | 1.5 |   | 0   | 0   | 7   | 80  | 87   |
| Androsace helvetica               | 1.5 |   | 0   | 0   | 0   | 1   | 1    |
| Androsace obtusifolia             | 1.5 |   | 0   | 0   | 1   | 63  | 64   |
| Androsace puberula                | 1.5 |   | 0   | 0   | 0   | 9   | 9    |
| Androsace vitaliana               | 1.5 |   | 0   | 0   | 0   | 5   | 5    |
| Anemone baldensis                 | 1.5 |   | 0   | 0   | 0   | 6   | 6    |
| Anemone narcissiflora             | 2   |   | 0   | 0   | 15  | 25  | 40   |
| Anemone nemorosa                  | 3.5 |   | 97  | 289 | 16  | 0   | 402  |
| Anemone ranunculoides             | 4   |   | 1   | 0   | 0   | 0   | 1    |
| Angelica sylvestris               | 3   | l | 5   | 51  | 4   | 0   | 60   |
| Antennaria carpatica              | 1.5 |   | 0   | 0   | 0   | 21  | 21   |
| Antennaria dioica                 | 2   |   | 0   | 8   | 23  | 69  | 100  |
| Anthericum liliago                | 4   |   | 7   | 7   | 2   | 0   | 16   |
| Anthericum ramosum                | 3.5 |   | 5   | 5   | 0   | 0   | 10   |
| Anthoxanthum odoratum aggr.       |     |   | 60  | 540 | 429 | 500 | 1529 |
| Anthriscus nitida                 | 2.5 | l | 0   | 2   | 4   | 0   | 6    |

|                                     |     |   |    |     |     |     |     |
|-------------------------------------|-----|---|----|-----|-----|-----|-----|
| <i>Anthriscus sylvestris</i>        | 3.5 | l | 10 | 107 | 15  | 1   | 133 |
| <i>Anthyllis vulneraria</i>         |     |   | 4  | 23  | 64  | 159 | 250 |
| <i>Aphanes arvensis</i>             | 4.5 | s | 0  | 1   | 0   | 0   | 1   |
| <i>Aposeris foetida</i>             | 2.5 | l | 0  | 13  | 61  | 12  | 86  |
| <i>Aquilegia alpina</i>             | 2   |   | 0  | 0   | 4   | 0   | 4   |
| <i>Aquilegia atrata</i>             | 3   |   | 0  | 15  | 4   | 0   | 19  |
| <i>Aquilegia vulgaris</i>           | 3   |   | 3  | 4   | 6   | 0   | 13  |
| <i>Arabidopsis thaliana</i>         | 3.5 | s | 4  | 5   | 0   | 0   | 9   |
| <i>Arabis alpina</i>                | 2   |   | 1  | 2   | 20  | 77  | 100 |
| <i>Arabis bellidifolia</i>          | 1.5 |   | 0  | 0   | 0   | 21  | 21  |
| <i>Arabis caerulea</i>              | 1   |   | 0  | 0   | 0   | 39  | 39  |
| <i>Arabis ciliata</i>               | 2.5 |   | 4  | 14  | 35  | 20  | 73  |
| <i>Arabis hirsuta</i> aggr.         | 3.5 |   | 8  | 10  | 11  | 1   | 30  |
| <i>Arabis nova</i>                  | 2.5 | s | 5  | 3   | 0   | 1   | 9   |
| <i>Arabis subcoriacea</i>           | 2   |   | 0  | 0   | 0   | 16  | 16  |
| <i>Arabis turrata</i>               | 3.5 |   | 6  | 2   | 0   | 0   | 8   |
| <i>Arctium lappa</i>                | 3.5 | l | 0  | 3   | 0   | 0   | 3   |
| <i>Arctostaphylos alpina</i>        | 1.5 | l | 0  | 0   | 5   | 0   | 5   |
| <i>Arctostaphylos uva-ursi</i>      | 2   | l | 0  | 0   | 9   | 23  | 32  |
| <i>Arenaria biflora</i>             | 1   |   | 0  | 0   | 0   | 58  | 58  |
| <i>Arenaria ciliata</i> aggr.       | 1.5 |   | 0  | 0   | 2   | 52  | 54  |
| <i>Arenaria marschlinii</i>         | 1   |   | 0  | 0   | 0   | 1   | 1   |
| <i>Arenaria serpyllifolia</i> aggr. | 4   | s | 15 | 28  | 9   | 0   | 52  |
| <i>Arnica montana</i>               | 2   |   | 0  | 3   | 52  | 158 | 213 |
| <i>Arrhenatherum elatius</i>        | 4   | l | 76 | 235 | 11  | 4   | 326 |
| <i>Artemisia absinthium</i>         | 4   |   | 4  | 0   | 0   | 0   | 4   |
| <i>Artemisia campestris</i>         | 3.5 |   | 2  | 0   | 0   | 0   | 2   |
| <i>Artemisia genipi</i>             | 1   |   | 0  | 0   | 0   | 16  | 16  |
| <i>Artemisia umbelliformis</i>      | 1   |   | 0  | 0   | 4   | 7   | 11  |
| <i>Artemisia verlotiorum</i>        | 4.5 | l | 1  | 1   | 0   | 0   | 2   |
| <i>Artemisia vulgaris</i>           | 4   |   | 4  | 3   | 0   | 0   | 7   |
| <i>Arum maculatum</i>               | 4   |   | 32 | 53  | 0   | 0   | 85  |
| <i>Aruncus dioicus</i>              | 3.5 | l | 12 | 14  | 0   | 0   | 26  |
| <i>Asarum europaeum</i>             | 4   | l | 6  | 16  | 2   | 0   | 24  |
| <i>Asperula cynanchica</i>          | 3.5 |   | 4  | 4   | 11  | 0   | 19  |
| <i>Asperula taurina</i>             | 4   | l | 0  | 16  | 1   | 0   | 17  |
| <i>Asplenium adiantum-nigrum</i>    | 4   |   | 13 | 0   | 0   | 0   | 13  |
| <i>Asplenium ruta-muraria</i>       | 2.5 |   | 4  | 12  | 1   | 0   | 17  |
| <i>Asplenium septentrionale</i>     | 2.5 |   | 6  | 1   | 0   | 0   | 7   |
| <i>Asplenium trichomanes</i>        | 3.5 |   | 29 | 29  | 9   | 0   | 67  |
| <i>Asplenium viride</i>             | 2   | s | 0  | 9   | 34  | 38  | 81  |
| <i>Aster alpinus</i>                | 2   |   | 0  | 0   | 7   | 30  | 37  |
| <i>Aster amellus</i>                | 3.5 |   | 1  | 0   | 0   | 0   | 1   |
| <i>Aster bellidifolium</i>          | 2   |   | 0  | 51  | 194 | 197 | 442 |
| <i>Aster novi-belgii</i> aggr.      | 4.5 | l | 3  | 0   | 0   | 0   | 3   |
| <i>Astragalus alpinus</i>           | 1.5 | l | 0  | 0   | 4   | 19  | 23  |
| <i>Astragalus australis</i>         | 1.5 | l | 0  | 0   | 4   | 4   | 8   |

|                           |     |   |    |     |     |     |     |
|---------------------------|-----|---|----|-----|-----|-----|-----|
| Astragalus cicer          | 4   | l | 0  | 5   | 0   | 0   | 5   |
| Astragalus frigidus       | 1.5 | l | 0  | 0   | 4   | 5   | 9   |
| Astragalus glycyphyllos   | 3.5 | l | 2  | 6   | 2   | 1   | 11  |
| Astragalus penduliflorus  | 2   | l | 0  | 0   | 6   | 4   | 10  |
| Astrantia major           | 2.5 | l | 0  | 11  | 55  | 8   | 74  |
| Astrantia minor           | 2.5 | l | 0  | 5   | 21  | 40  | 66  |
| Athamanta cretensis       | 2   |   | 0  | 0   | 6   | 1   | 7   |
| Athyrium distentifolium   | 2   | l | 0  | 2   | 28  | 49  | 79  |
| Athyrium filix-femina     | 3   | l | 16 | 261 | 118 | 5   | 400 |
| Atriplex patula           | 4   | s | 0  | 3   | 3   | 0   | 6   |
| Atropa bella-donna        | 3.5 |   | 1  | 9   | 0   | 0   | 10  |
| Avenella flexuosa         | 3   |   | 5  | 76  | 213 | 272 | 566 |
| Barbarea intermedia       | 3   | s | 0  | 5   | 0   | 0   | 5   |
| Barbarea vulgaris         | 3.5 | s | 0  | 1   | 3   | 0   | 4   |
| Bartsia alpina            | 2   |   | 0  | 0   | 42  | 214 | 256 |
| Bellis perennis           | 3.5 |   | 68 | 431 | 75  | 13  | 587 |
| Berberis vulgaris         | 3   | l | 19 | 20  | 4   | 0   | 43  |
| Betula pendula            | 3.5 | l | 21 | 46  | 9   | 0   | 76  |
| Betula pubescens          | 3   | l | 1  | 1   | 1   | 0   | 3   |
| Bidens frondosa           | 4.5 | s | 1  | 0   | 0   | 0   | 1   |
| Biscutella laevigata      |     |   | 0  | 3   | 20  | 43  | 66  |
| Blackstonia perfoliata    | 4   | s | 3  | 0   | 0   | 0   | 3   |
| Blechnum spicant          | 2.5 | l | 0  | 10  | 51  | 3   | 64  |
| Blysmus compressus        | 3   |   | 0  | 2   | 15  | 2   | 19  |
| Botrychium lunaria        | 2   |   | 0  | 11  | 34  | 97  | 142 |
| Brachypodium pinnatum     | 3   | l | 12 | 97  | 33  | 0   | 142 |
| Brachypodium rupestre     | 3.5 | l | 3  | 23  | 7   | 0   | 33  |
| Brachypodium sylvaticum   | 3.5 |   | 46 | 219 | 11  | 0   | 276 |
| Brassica napus            | 4   | l | 0  | 4   | 0   | 0   | 4   |
| Briza media               | 3   |   | 7  | 66  | 146 | 41  | 260 |
| Bromus benekenii          | 3.5 | l | 1  | 35  | 5   | 0   | 41  |
| Bromus erectus            | 4   | l | 35 | 106 | 19  | 1   | 161 |
| Bromus hordeaceus         | 3.5 | s | 47 | 204 | 3   | 0   | 254 |
| Bromus inermis            | 4.5 | l | 5  | 2   | 0   | 0   | 7   |
| Bromus racemosus aggr.    | 4.5 | s | 0  | 5   | 0   | 0   | 5   |
| Bromus ramosus            | 3.5 | l | 0  | 2   | 0   | 0   | 2   |
| Bromus sterilis           | 4   | s | 11 | 4   | 0   | 0   | 15  |
| Bromus tectorum           | 4.5 | s | 3  | 2   | 0   | 0   | 5   |
| Buddleja davidii          | 4.5 | l | 0  | 3   | 0   | 0   | 3   |
| Buglossoides arvensis     | 3.5 | s | 1  | 0   | 0   | 0   | 1   |
| Buphthalmum salicifolium  | 3   |   | 0  | 5   | 4   | 0   | 9   |
| Bupleurum falcatum        | 4   |   | 4  | 0   | 0   | 0   | 4   |
| Bupleurum longifolium     | 3   |   | 0  | 0   | 1   | 0   | 1   |
| Bupleurum ranunculoides   | 2   |   | 0  | 0   | 7   | 5   | 12  |
| Bupleurum stellatum       | 1.5 |   | 0  | 0   | 8   | 17  | 25  |
| Calamagrostis arundinacea | 3   | l | 7  | 29  | 12  | 0   | 48  |
| Calamagrostis canescens   | 3.5 | l | 1  | 0   | 0   | 0   | 1   |

|                           |     |   |    |     |     |     |     |
|---------------------------|-----|---|----|-----|-----|-----|-----|
| Calamagrostis epigejos    | 3.5 | l | 3  | 3   | 1   | 0   | 7   |
| Calamagrostis varia       | 3   | l | 0  | 102 | 102 | 27  | 231 |
| Calamagrostis villosa     | 2   | l | 0  | 38  | 180 | 62  | 280 |
| Calamintha nepeta aggr.   | 4   |   | 0  | 4   | 0   | 0   | 4   |
| Calluna vulgaris          | 2.5 |   | 8  | 11  | 83  | 111 | 213 |
| Caltha palustris          | 3   |   | 3  | 25  | 69  | 14  | 111 |
| Calystegia sepium         | 3.5 | l | 12 | 3   | 0   | 0   | 15  |
| Campanula barbata         | 2   |   | 0  | 10  | 90  | 198 | 298 |
| Campanula cenisia         | 1   |   | 0  | 0   | 0   | 8   | 8   |
| Campanula cochleariifolia | 2   |   | 1  | 16  | 57  | 85  | 159 |
| Campanula excisa          | 1.5 |   | 0  | 0   | 0   | 2   | 2   |
| Campanula glomerata       | 4   |   | 4  | 2   | 7   | 0   | 13  |
| Campanula patula          | 3.5 |   | 1  | 4   | 1   | 0   | 6   |
| Campanula persicifolia    | 4   |   | 2  | 0   | 0   | 0   | 2   |
| Campanula rapunculoides   | 4   |   | 3  | 22  | 4   | 0   | 29  |
| Campanula rapunculus      | 4.5 |   | 0  | 3   | 0   | 0   | 3   |
| Campanula rhomboidalis    | 2.5 | l | 0  | 45  | 39  | 1   | 85  |
| Campanula rotundifolia    | 3.5 |   | 16 | 106 | 112 | 34  | 268 |
| Campanula scheuchzeri     | 1.5 |   | 0  | 26  | 201 | 504 | 731 |
| Campanula spicata         | 4   |   | 2  | 0   | 0   | 0   | 2   |
| Campanula thyrsoides      | 2   |   | 0  | 0   | 1   | 3   | 4   |
| Campanula trachelium      | 3.5 | l | 5  | 46  | 9   | 0   | 60  |
| Capsella bursa-pastoris   | 3   | s | 46 | 134 | 8   | 0   | 188 |
| Capsella rubella          | 4.5 | s | 4  | 5   | 0   | 0   | 9   |
| Cardamine alpina          | 1   |   | 0  | 0   | 0   | 55  | 55  |
| Cardamine amara           | 3   |   | 1  | 8   | 9   | 1   | 19  |
| Cardamine flexuosa        |     |   | 11 | 55  | 23  | 0   | 89  |
| Cardamine heptaphylla     | 3   |   | 0  | 61  | 11  | 2   | 74  |
| Cardamine hirsuta         | 3.5 | s | 40 | 81  | 2   | 1   | 124 |
| Cardamine impatiens       | 3.5 |   | 4  | 13  | 3   | 0   | 20  |
| Cardamine kitaibelii      | 3.5 |   | 0  | 6   | 0   | 0   | 6   |
| Cardamine pentaphyllos    | 3   |   | 0  | 15  | 6   | 0   | 21  |
| Cardamine pratensis aggr. | 3.5 | l | 65 | 391 | 37  | 0   | 493 |
| Cardamine resedifolia     | 1.5 |   | 1  | 6   | 19  | 214 | 240 |
| Cardamine trifolia        | 3   | l | 0  | 1   | 0   | 0   | 1   |
| Cardaminopsis halleri     | 2.5 |   | 1  | 0   | 2   | 0   | 3   |
| Carduus defloratus        | 2.5 |   | 0  | 44  | 109 | 87  | 240 |
| Carduus nutans            | 4   | s | 0  | 0   | 1   | 0   | 1   |
| Carduus personata         | 2.5 | l | 0  | 2   | 9   | 0   | 11  |
| Carex acuta               | 4   | l | 2  | 0   | 0   | 0   | 2   |
| Carex acutiformis         | 3.5 | l | 1  | 0   | 0   | 0   | 1   |
| Carex alba                | 3   |   | 10 | 52  | 11  | 4   | 77  |
| Carex atrata              | 1.5 |   | 0  | 0   | 0   | 23  | 23  |
| Carex brizoides           | 4   | l | 7  | 19  | 1   | 0   | 27  |
| Carex brunnescens         | 1.5 |   | 0  | 0   | 5   | 6   | 11  |
| Carex canescens           | 2.5 |   | 0  | 0   | 5   | 2   | 7   |
| Carex capillaris          | 1.5 |   | 0  | 0   | 3   | 40  | 43  |

|                        |     |   |    |     |     |     |     |
|------------------------|-----|---|----|-----|-----|-----|-----|
| Carex caryophyllea     | 3   |   | 8  | 37  | 52  | 20  | 117 |
| Carex curvula          | 1   | I | 0  | 0   | 1   | 247 | 248 |
| Carex davalliana       | 3   |   | 0  | 5   | 20  | 10  | 35  |
| Carex digitata         | 3   |   | 40 | 116 | 24  | 3   | 183 |
| Carex echinata         | 3   |   | 0  | 1   | 32  | 20  | 53  |
| Carex elata            | 3.5 |   | 4  | 0   | 0   | 0   | 4   |
| Carex ericetorum       | 3   |   | 0  | 0   | 3   | 21  | 24  |
| Carex ferruginea       | 2   | I | 0  | 17  | 119 | 84  | 220 |
| Carex firma            | 1.5 |   | 0  | 0   | 3   | 37  | 40  |
| Carex flacca           | 3   |   | 21 | 241 | 146 | 37  | 445 |
| Carex flava aggr.      | 3   |   | 8  | 6   | 39  | 23  | 76  |
| Carex foetida          | 1   |   | 0  | 0   | 0   | 28  | 28  |
| Carex frigida          | 1.5 |   | 0  | 1   | 9   | 29  | 39  |
| Carex fritschii        | 4.5 | I | 0  | 1   | 0   | 0   | 1   |
| Carex halleriana       | 4.5 |   | 10 | 0   | 0   | 0   | 10  |
| Carex hartmanii        | 3.5 |   | 1  | 0   | 0   | 0   | 1   |
| Carex hirta            | 3.5 | I | 17 | 83  | 14  | 0   | 114 |
| Carex hostiana         | 3   |   | 1  | 0   | 2   | 0   | 3   |
| Carex humilis          | 3.5 |   | 28 | 29  | 14  | 6   | 77  |
| Carex lachenalii       | 1.5 |   | 0  | 0   | 0   | 5   | 5   |
| Carex lasiocarpa       | 3   |   | 2  | 0   | 0   | 0   | 2   |
| Carex leporina         | 3   |   | 0  | 19  | 45  | 13  | 77  |
| Carex liparocarpos     | 4.5 |   | 1  | 0   | 0   | 0   | 1   |
| Carex montana          | 3   | I | 20 | 114 | 93  | 6   | 233 |
| Carex muricata aggr.   | 3.5 | I | 5  | 19  | 1   | 0   | 25  |
| Carex nigra            | 2.5 |   | 6  | 10  | 74  | 34  | 124 |
| Carex ornithopoda      | 3.5 |   | 9  | 142 | 124 | 79  | 354 |
| Carex ornithopodioides | 1   |   | 0  | 0   | 0   | 16  | 16  |
| Carex pallescens       | 3   |   | 1  | 52  | 154 | 54  | 261 |
| Carex panicea          | 3   |   | 8  | 20  | 47  | 9   | 84  |
| Carex paniculata       | 3   |   | 1  | 4   | 12  | 5   | 22  |
| Carex parviflora       | 1   |   | 0  | 0   | 0   | 65  | 65  |
| Carex pauciflora       | 2   |   | 0  | 0   | 0   | 1   | 1   |
| Carex pendula          | 3.5 |   | 8  | 30  | 0   | 0   | 38  |
| Carex pilosa           | 4   | I | 12 | 7   | 0   | 0   | 19  |
| Carex pilulifera       | 3.5 |   | 7  | 41  | 36  | 7   | 91  |
| Carex pulicaris        | 3   |   | 0  | 0   | 2   | 0   | 2   |
| Carex remota           | 3.5 |   | 9  | 36  | 4   | 0   | 49  |
| Carex rostrata         | 3   |   | 0  | 0   | 6   | 0   | 6   |
| Carex rupestris        | 1.5 |   | 0  | 0   | 0   | 5   | 5   |
| Carex sempervirens     | 1.5 |   | 0  | 17  | 135 | 418 | 570 |
| Carex strigosa         | 3.5 |   | 1  | 0   | 0   | 0   | 1   |
| Carex sylvatica        | 3.5 |   | 46 | 391 | 127 | 13  | 577 |
| Carex tomentosa        | 3.5 |   | 0  | 3   | 0   | 0   | 3   |
| Carex umbrosa          | 4   |   | 1  | 0   | 1   | 0   | 2   |
| Carlina acaulis        | 3   |   | 0  | 24  | 113 | 106 | 243 |
| Carlina vulgaris aggr. | 3   |   | 0  | 4   | 1   | 1   | 6   |

|                              |     |   |     |     |     |     |      |
|------------------------------|-----|---|-----|-----|-----|-----|------|
| Carpinus betulus             | 4   | l | 34  | 19  | 0   | 0   | 53   |
| Carum carvi                  | 2.5 | l | 2   | 84  | 134 | 21  | 241  |
| Castanea sativa              | 4.5 | l | 38  | 14  | 0   | 0   | 52   |
| Caucalis platycarpus         | 5   | s | 2   | 0   | 0   | 0   | 2    |
| Centaurea jacea              |     |   | 20  | 36  | 32  | 0   | 88   |
| Centaurea montana            | 2.5 | l | 0   | 15  | 64  | 5   | 84   |
| Centaurea nervosa            | 2   | l | 0   | 4   | 10  | 6   | 20   |
| Centaurea nigrescens         | 4   | l | 9   | 0   | 4   | 0   | 13   |
| Centaurea scabiosa           |     | l | 9   | 26  | 41  | 4   | 80   |
| Centaureum erythraea         | 3.5 | s | 2   | 3   | 0   | 0   | 5    |
| Cephalanthera damasonium     | 3.5 |   | 1   | 6   | 0   | 0   | 7    |
| Cephalanthera longifolia     | 3.5 |   | 0   | 7   | 2   | 0   | 9    |
| Cerastium alpinum            | 1.5 |   | 0   | 0   | 0   | 4   | 4    |
| Cerastium arvense            |     |   | 4   | 21  | 51  | 92  | 168  |
| Cerastium cerastoides        | 1   |   | 0   | 0   | 0   | 28  | 28   |
| Cerastium fontanum           | 3.5 |   | 124 | 697 | 216 | 51  | 1088 |
| Cerastium glomeratum         | 4   | s | 13  | 39  | 2   | 0   | 54   |
| Cerastium latifolium         | 1   |   | 0   | 0   | 0   | 36  | 36   |
| Cerastium ligusticum         | 5   | s | 0   | 1   | 0   | 0   | 1    |
| Cerastium pedunculatum       | 1   |   | 0   | 0   | 0   | 22  | 22   |
| Cerastium pumilum            | 4.5 | s | 0   | 1   | 0   | 0   | 1    |
| Cerastium semidecandrum      | 4   | s | 1   | 0   | 0   | 0   | 1    |
| Cerastium uniflorum          | 1   |   | 0   | 0   | 0   | 43  | 43   |
| Chaenorrhinum minus          | 4   | s | 1   | 2   | 0   | 0   | 3    |
| Chaerophyllum aureum         | 3   | l | 0   | 6   | 6   | 0   | 12   |
| Chaerophyllum hirsutum aggr. | 2.5 | l | 1   | 147 | 285 | 45  | 478  |
| Chamorchis alpina            | 1.5 |   | 0   | 0   | 0   | 10  | 10   |
| Chelidonium majus            | 3.5 | l | 3   | 1   | 0   | 0   | 4    |
| Chenopodium album aggr.      |     |   | 8   | 27  | 1   | 0   | 36   |
| Chenopodium bonus-henricus   | 2.5 |   | 0   | 12  | 3   | 6   | 21   |
| Chenopodium hybridum         | 4.5 | s | 1   | 0   | 0   | 0   | 1    |
| Chenopodium polyspermum      | 3.5 | s | 8   | 12  | 1   | 0   | 21   |
| Chrysosplenium alternifolium | 3   |   | 0   | 27  | 15  | 0   | 42   |
| Cicerbita alpina             | 2   | l | 0   | 6   | 30  | 0   | 36   |
| Circaea xintermedia          |     |   | 0   | 2   | 0   | 0   | 2    |
| Circaea alpina               | 2.5 |   | 0   | 22  | 7   | 0   | 29   |
| Circaea lutetiana            | 3.5 | l | 37  | 107 | 3   | 0   | 147  |
| Cirsium acaule               | 2.5 |   | 3   | 15  | 56  | 27  | 101  |
| Cirsium arvense              | 3.5 | l | 1   | 40  | 5   | 0   | 46   |
| Cirsium eriophorum           | 2.5 | l | 0   | 5   | 2   | 0   | 7    |
| Cirsium erisithales          | 2.5 | l | 0   | 0   | 4   | 0   | 4    |
| Cirsium helenioides          | 2.5 | l | 0   | 0   | 12  | 0   | 12   |
| Cirsium oleraceum            | 3   | l | 2   | 66  | 15  | 1   | 84   |
| Cirsium palustre             | 3.5 |   | 3   | 43  | 25  | 0   | 71   |
| Cirsium rivulare             | 3.5 | l | 0   | 4   | 5   | 0   | 9    |
| Cirsium spinosissimum        | 1.5 | l | 0   | 1   | 6   | 204 | 211  |
| Cirsium vulgare              | 3.5 | s | 3   | 26  | 3   | 1   | 33   |

|                                    |     |   |    |     |     |     |     |
|------------------------------------|-----|---|----|-----|-----|-----|-----|
| Clematis alpina                    | 2   | l | 0  | 0   | 21  | 0   | 21  |
| Clematis vitalba                   | 3.5 | l | 35 | 38  | 0   | 0   | 73  |
| Clinopodium vulgare                | 4   | l | 18 | 80  | 34  | 0   | 132 |
| Coeloglossum viride                | 2   |   | 0  | 1   | 15  | 53  | 69  |
| Colchicum alpinum                  | 2.5 |   | 0  | 3   | 0   | 0   | 3   |
| Colchicum autumnale                | 3   |   | 10 | 48  | 29  | 0   | 87  |
| Colutea arborescens                | 4.5 | l | 0  | 1   | 0   | 0   | 1   |
| Convallaria majalis                | 3.5 | l | 8  | 11  | 7   | 0   | 26  |
| Convolvulus arvensis               | 4   | s | 6  | 21  | 0   | 0   | 27  |
| Conyza canadensis bdm-aggr.        | 4.5 | s | 14 | 4   | 0   | 0   | 18  |
| Corallorhiza trifida               | 2.5 |   | 0  | 0   | 3   | 3   | 6   |
| Cornus sanguinea                   | 3.5 | l | 46 | 53  | 0   | 0   | 99  |
| Coronilla vaginalis                | 2.5 |   | 0  | 4   | 2   | 0   | 6   |
| Corydalis cava                     | 3.5 |   | 1  | 0   | 0   | 0   | 1   |
| Corydalis solida                   | 3.5 |   | 0  | 4   | 0   | 0   | 4   |
| Corylus avellana                   | 3   | l | 74 | 239 | 25  | 0   | 338 |
| Cotoneaster horizontalis bdm-aggr. | 4   | l | 2  | 0   | 0   | 0   | 2   |
| Cotoneaster integerrimus           | 3   | l | 0  | 5   | 8   | 4   | 17  |
| Cotoneaster tomentosus             | 3.5 | l | 2  | 2   | 1   | 0   | 5   |
| Crataegus laevigata                | 3.5 | l | 16 | 10  | 1   | 0   | 27  |
| Crataegus monogyna                 | 4   | l | 28 | 43  | 2   | 0   | 73  |
| Crepis alpestris                   | 2   | l | 0  | 0   | 2   | 1   | 3   |
| Crepis aurea                       | 2   | l | 0  | 19  | 70  | 129 | 218 |
| Crepis biennis                     | 3.5 | l | 28 | 146 | 18  | 0   | 192 |
| Crepis bocconeii                   | 2   | l | 0  | 0   | 0   | 1   | 1   |
| Crepis capillaris                  | 3.5 | s | 20 | 61  | 3   | 2   | 86  |
| Crepis conyzifolia                 | 2   | l | 0  | 6   | 10  | 7   | 23  |
| Crepis kernerii                    | 1.5 |   | 0  | 0   | 0   | 14  | 14  |
| Crepis mollis                      | 2.5 |   | 0  | 4   | 16  | 0   | 20  |
| Crepis paludosa                    | 3   | l | 0  | 40  | 73  | 4   | 117 |
| Crepis pyrenaica                   | 2.5 | l | 0  | 21  | 61  | 1   | 83  |
| Crepis rhaetica                    | 1   |   | 0  | 0   | 0   | 1   | 1   |
| Crepis setosa                      | 4.5 | s | 1  | 0   | 0   | 0   | 1   |
| Crepis terglouensis                | 1   |   | 0  | 0   | 0   | 7   | 7   |
| Crepis vesicaria                   | 4   | s | 2  | 6   | 0   | 0   | 8   |
| Crocus albiflorus                  | 2.5 |   | 7  | 69  | 158 | 37  | 271 |
| Cruciata glabra                    | 4.5 |   | 4  | 4   | 0   | 0   | 8   |
| Cruciata laevipes                  | 3.5 | l | 0  | 9   | 12  | 0   | 21  |
| Cryptogramma crispa                | 1.5 |   | 0  | 0   | 17  | 25  | 42  |
| Cuscuta epithymum                  | 3   |   | 0  | 5   | 13  | 0   | 18  |
| Cuscuta europaea                   | 4   |   | 0  | 1   | 0   | 0   | 1   |
| Cyclamen purpurascens              | 4   |   | 5  | 11  | 1   | 0   | 17  |
| Cynodon dactylon                   | 5   | l | 1  | 0   | 0   | 0   | 1   |
| Cynosurus cristatus                | 3   |   | 17 | 294 | 145 | 12  | 468 |
| Cyperus fuscus                     | 4   | s | 1  | 0   | 0   | 0   | 1   |
| Cystopteris alpina                 | 1.5 |   | 0  | 0   | 0   | 11  | 11  |
| Cystopteris fragilis aggr.         | 3   |   | 1  | 21  | 18  | 22  | 62  |

|                             |     |   |     |     |     |     |      |
|-----------------------------|-----|---|-----|-----|-----|-----|------|
| Cystopteris montana         | 2   |   | 0   | 0   | 4   | 0   | 4    |
| Cytisus nigricans           | 4.5 | l | 0   | 1   | 0   | 0   | 1    |
| Cytisus scoparius           | 4   | l | 18  | 24  | 0   | 0   | 42   |
| Dactylis glomerata          | 4   |   | 188 | 866 | 267 | 10  | 1331 |
| Dactylorhiza incarnata      |     |   | 0   | 1   | 1   | 0   | 2    |
| Dactylorhiza maculata       | 3   |   | 0   | 50  | 122 | 26  | 198  |
| Dactylorhiza majalis        | 2.5 |   | 0   | 4   | 10  | 1   | 15   |
| Danthonia decumbens         | 3   |   | 3   | 18  | 35  | 6   | 62   |
| Daphne laureola             | 3.5 | l | 1   | 9   | 0   | 0   | 10   |
| Daphne mezereum             | 3   | l | 0   | 11  | 28  | 10  | 49   |
| Daphne striata              | 1.5 | l | 0   | 0   | 13  | 47  | 60   |
| Daucus carota               | 4   |   | 25  | 60  | 6   | 1   | 92   |
| Deschampsia cespitosa       | 3   | l | 17  | 107 | 246 | 153 | 523  |
| Dianthus armeria            | 4.5 | s | 0   | 1   | 0   | 0   | 1    |
| Dianthus carthusianorum     |     |   | 0   | 5   | 8   | 4   | 17   |
| Dianthus superbus           | 3.5 |   | 0   | 3   | 20  | 4   | 27   |
| Dianthus sylvestris         | 3   |   | 0   | 0   | 3   | 0   | 3    |
| Digitalis grandiflora       | 2.5 | l | 0   | 1   | 3   | 0   | 4    |
| Digitalis lutea             | 3.5 | l | 4   | 2   | 1   | 0   | 7    |
| Digitaria ischaemum aggr.   | 4   | s | 2   | 5   | 0   | 0   | 7    |
| Digitaria sanguinalis aggr. | 4   | s | 18  | 14  | 0   | 0   | 32   |
| Diphasiastrum alpinum       | 2   |   | 0   | 0   | 0   | 23  | 23   |
| Doronicum clusii            | 1   | l | 0   | 0   | 0   | 45  | 45   |
| Doronicum grandiflorum      | 1.5 | l | 0   | 0   | 3   | 37  | 40   |
| Draba aizoides              | 1.5 |   | 0   | 1   | 0   | 51  | 52   |
| Draba dubia                 | 1   |   | 0   | 0   | 1   | 3   | 4    |
| Draba siliquosa             | 1   |   | 0   | 0   | 0   | 3   | 3    |
| Draba tomentosa             | 1   |   | 0   | 0   | 0   | 1   | 1    |
| Drosera rotundifolia        | 3   |   | 0   | 0   | 2   | 0   | 2    |
| Dryas octopetala            | 1.5 |   | 0   | 0   | 20  | 128 | 148  |
| Dryopteris affinis          | 3   | l | 12  | 28  | 7   | 0   | 47   |
| Dryopteris carthusiana      | 3   | l | 16  | 85  | 44  | 15  | 160  |
| Dryopteris dilatata         | 2.5 | l | 8   | 188 | 116 | 40  | 352  |
| Dryopteris expansa          | 2.5 | l | 0   | 4   | 9   | 3   | 16   |
| Dryopteris filix-mas        | 3   | l | 13  | 213 | 83  | 8   | 317  |
| Dryopteris villarii         | 2   |   | 0   | 0   | 1   | 4   | 5    |
| Duchesnea indica            | 4.5 | l | 4   | 0   | 0   | 0   | 4    |
| Echinochloa crus-galli      | 4   | s | 16  | 23  | 0   | 0   | 39   |
| Echium vulgare              | 4   | s | 2   | 1   | 3   | 0   | 6    |
| Eleocharis palustris aggr.  | 3   |   | 2   | 1   | 0   | 0   | 3    |
| Eleocharis quinqueflora     | 3   |   | 1   | 0   | 2   | 4   | 7    |
| Elymus caninus              | 3.5 |   | 3   | 48  | 13  | 0   | 64   |
| Elymus repens               | 3.5 | l | 55  | 158 | 5   | 0   | 218  |
| Elyna myosuroides           | 1.5 | l | 0   | 0   | 0   | 73  | 73   |
| Empetrum nigrum             | 1.5 |   | 0   | 0   | 6   | 73  | 79   |
| Epilobium alpestre          | 2.5 | l | 0   | 0   | 23  | 2   | 25   |
| Epilobium alsinifolium      | 2   | l | 0   | 0   | 4   | 10  | 14   |

|                             |     |   |    |     |    |    |     |
|-----------------------------|-----|---|----|-----|----|----|-----|
| Epilobium anagallidifolium  | 1.5 |   | 0  | 0   | 2  | 28 | 30  |
| Epilobium angustifolium     | 3   | l | 0  | 21  | 50 | 9  | 80  |
| Epilobium ciliatum          | 4.5 | s | 0  | 1   | 0  | 0  | 1   |
| Epilobium collinum          | 2.5 |   | 0  | 15  | 6  | 1  | 22  |
| Epilobium dodonaei          | 4   |   | 0  | 0   | 0  | 1  | 1   |
| Epilobium fleischeri        | 2   |   | 0  | 0   | 0  | 9  | 9   |
| Epilobium hirsutum          | 3.5 | l | 1  | 3   | 0  | 0  | 4   |
| Epilobium montanum          | 3   |   | 6  | 114 | 89 | 0  | 209 |
| Epilobium nutans            | 2   |   | 0  | 0   | 1  | 10 | 11  |
| Epilobium obscurum          | 3.5 | l | 1  | 5   | 0  | 0  | 6   |
| Epilobium palustre          | 3   |   | 0  | 2   | 2  | 2  | 6   |
| Epilobium parviflorum       | 3.5 |   | 7  | 15  | 2  | 0  | 24  |
| Epilobium roseum            | 3.5 |   | 2  | 4   | 0  | 0  | 6   |
| Epilobium tetragonum        | 3.5 | l | 1  | 13  | 0  | 0  | 14  |
| Epipactis atrorubens        | 3   |   | 1  | 10  | 7  | 6  | 24  |
| Epipactis helleborine aggr. | 3   |   | 3  | 28  | 6  | 1  | 38  |
| Epipactis palustris         | 3.5 |   | 0  | 1   | 0  | 0  | 1   |
| Equisetum arvense           | 3.5 | l | 16 | 83  | 42 | 0  | 141 |
| Equisetum fluviatile        | 3   |   | 1  | 0   | 0  | 0  | 1   |
| Equisetum hyemale           | 3.5 | l | 0  | 5   | 0  | 0  | 5   |
| Equisetum palustre          | 3   | l | 4  | 25  | 49 | 6  | 84  |
| Equisetum sylvaticum        | 3   | l | 1  | 31  | 49 | 0  | 81  |
| Equisetum telmateia         | 3.5 |   | 2  | 19  | 0  | 0  | 21  |
| Equisetum variegatum        | 2.5 |   | 0  | 0   | 7  | 15 | 22  |
| Erica carnea                | 2   | l | 0  | 8   | 34 | 50 | 92  |
| Erigeron alpinus            | 1.5 |   | 0  | 0   | 2  | 17 | 19  |
| Erigeron annuus             | 4   | l | 17 | 8   | 0  | 0  | 25  |
| Erigeron glabratus          | 1.5 |   | 0  | 0   | 0  | 2  | 2   |
| Erigeron neglectus          | 1   |   | 0  | 0   | 0  | 1  | 1   |
| Erigeron uniflorus          | 1   |   | 0  | 0   | 1  | 43 | 44  |
| Erinus alpinus              | 2.5 |   | 0  | 3   | 0  | 0  | 3   |
| Eriophorum angustifolium    | 2.5 |   | 7  | 3   | 7  | 11 | 28  |
| Eriophorum gracile          | 3.5 |   | 2  | 0   | 0  | 0  | 2   |
| Eriophorum latifolium       | 3   |   | 0  | 1   | 9  | 2  | 12  |
| Eriophorum vaginatum        | 2.5 |   | 0  | 0   | 4  | 1  | 5   |
| Eritrichium nanum           | 1   |   | 0  | 0   | 0  | 6  | 6   |
| Erophila verna aggr.        | 4   | s | 0  | 4   | 2  | 0  | 6   |
| Erucastrum gallicum         | 4.5 | s | 0  | 1   | 0  | 0  | 1   |
| Erucastrum nasturtiifolium  | 3.5 |   | 1  | 7   | 0  | 0  | 8   |
| Erysimum rhaeticum aggr.    | 3   |   | 4  | 4   | 0  | 0  | 8   |
| Euonymus europaeus          | 3.5 | l | 45 | 42  | 0  | 0  | 87  |
| Euonymus latifolius         | 3.5 | l | 0  | 2   | 0  | 0  | 2   |
| Eupatorium cannabinum       | 3.5 | l | 4  | 15  | 0  | 0  | 19  |
| Euphorbia amygdaloides      | 4   | l | 5  | 28  | 0  | 0  | 33  |
| Euphorbia cyparissias       | 3   |   | 22 | 43  | 75 | 24 | 164 |
| Euphorbia dulcis            | 3.5 |   | 15 | 14  | 3  | 0  | 32  |
| Euphorbia helioscopia       | 3.5 | s | 1  | 1   | 1  | 0  | 3   |

|                          |     |   |     |     |     |     |      |
|--------------------------|-----|---|-----|-----|-----|-----|------|
| Euphorbia lathyris       | 5   | l | 1   | 0   | 0   | 0   | 1    |
| Euphorbia peplus         | 4   | s | 1   | 2   | 0   | 0   | 3    |
| Euphorbia platyphyllos   | 4   | s | 0   | 1   | 0   | 0   | 1    |
| Euphorbia stricta        | 4   |   | 0   | 1   | 0   | 0   | 1    |
| Euphorbia verrucosa      | 4.5 |   | 6   | 4   | 14  | 3   | 27   |
| Euphrasia alpina         | 1.5 | s | 0   | 0   | 0   | 13  | 13   |
| Euphrasia hirtella       | 2   | s | 0   | 0   | 6   | 4   | 10   |
| Euphrasia minima         | 1.5 | s | 0   | 1   | 20  | 435 | 456  |
| Euphrasia picta          | 2   | s | 0   | 0   | 1   | 2   | 3    |
| Euphrasia rostkoviana    |     |   | 0   | 22  | 49  | 15  | 86   |
| Euphrasia salisburgensis | 2.5 | s | 0   | 1   | 19  | 36  | 56   |
| Euphrasia stricta        | 3   | s | 0   | 0   | 1   | 4   | 5    |
| Fagus sylvatica          | 3.5 | l | 114 | 624 | 53  | 0   | 791  |
| Fallopia convolvulus     | 3.5 | s | 10  | 5   | 0   | 0   | 15   |
| Fallopia dumetorum       | 3.5 | s | 2   | 0   | 0   | 0   | 2    |
| Festuca altissima        | 2.5 | l | 0   | 41  | 6   | 0   | 47   |
| Festuca arundinacea      | 3.5 | l | 29  | 86  | 6   | 1   | 122  |
| Festuca gigantea         | 3.5 |   | 9   | 19  | 1   | 0   | 29   |
| Festuca halleri bdm-agg. | 1.5 | l | 0   | 0   | 6   | 267 | 273  |
| Festuca heterophylla     | 4   |   | 10  | 4   | 0   | 0   | 14   |
| Festuca ovina bdm-agg.   |     |   | 17  | 66  | 68  | 39  | 190  |
| Festuca paniculata       | 3   |   | 0   | 0   | 4   | 0   | 4    |
| Festuca pratensis        | 3   |   | 40  | 318 | 111 | 9   | 478  |
| Festuca pulchella        | 2   |   | 0   | 0   | 10  | 21  | 31   |
| Festuca quadriflora      | 1   |   | 0   | 0   | 16  | 148 | 164  |
| Festuca rubra aggr.      |     |   | 90  | 576 | 488 | 279 | 1433 |
| Festuca varia aggr.      | 2.5 | l | 10  | 49  | 14  | 27  | 100  |
| Festuca violacea aggr.   | 1.5 | l | 0   | 0   | 15  | 130 | 145  |
| Filipendula ulmaria      | 3   | l | 8   | 65  | 13  | 0   | 86   |
| Filipendula vulgaris     | 3.5 |   | 1   | 0   | 0   | 0   | 1    |
| Fourraea alpina          | 3   |   | 0   | 0   | 4   | 0   | 4    |
| Fragaria vesca           | 3   |   | 43  | 375 | 195 | 4   | 617  |
| Frangula alnus           | 3.5 | l | 10  | 9   | 0   | 0   | 19   |
| Fraxinus excelsior       | 3.5 | l | 197 | 755 | 30  | 0   | 982  |
| Fraxinus ornus           | 4.5 | l | 4   | 0   | 0   | 0   | 4    |
| Fumana ericoides         | 5   |   | 1   | 0   | 0   | 0   | 1    |
| Fumana procumbens        | 4.5 |   | 4   | 0   | 0   | 0   | 4    |
| Fumaria officinalis      | 3.5 | s | 0   | 3   | 0   | 0   | 3    |
| Gagea fragifera          | 2   |   | 0   | 0   | 0   | 1   | 1    |
| Gagea lutea              | 3.5 |   | 0   | 1   | 0   | 1   | 2    |
| Galega officinalis       | 4.5 | l | 1   | 0   | 0   | 0   | 1    |
| Galeopsis ladanum        | 2.5 | s | 2   | 2   | 0   | 0   | 4    |
| Galeopsis pubescens      | 4   | s | 2   | 0   | 0   | 0   | 2    |
| Galeopsis tetrahit       | 3   | s | 59  | 226 | 71  | 3   | 359  |
| Galinsoga quadriradiata  | 4   | s | 4   | 2   | 0   | 0   | 6    |
| Galium anisophyllum      | 2   | l | 1   | 13  | 97  | 210 | 321  |
| Galium aparine           | 3.5 | s | 46  | 73  | 3   | 0   | 122  |

|                        |     |   |    |     |     |     |     |
|------------------------|-----|---|----|-----|-----|-----|-----|
| Galium boreale         | 3   |   | 0  | 16  | 9   | 0   | 25  |
| Galium lucidum         | 4.5 |   | 2  | 10  | 4   | 0   | 16  |
| Galium megalospermum   | 1.5 |   | 0  | 0   | 0   | 28  | 28  |
| Galium mollugo aggr.   | 3.5 |   | 59 | 249 | 38  | 4   | 350 |
| Galium odoratum        | 3.5 | l | 53 | 367 | 48  | 1   | 469 |
| Galium palustre        | 3   |   | 7  | 8   | 4   | 0   | 19  |
| Galium pumilum         | 4   |   | 0  | 63  | 126 | 83  | 272 |
| Galium rotundifolium   | 3   | l | 1  | 89  | 26  | 0   | 116 |
| Galium rubrum          | 4   |   | 0  | 8   | 3   | 0   | 11  |
| Galium sylvaticum      | 3.5 | l | 0  | 4   | 0   | 0   | 4   |
| Galium uliginosum      | 3   |   | 5  | 6   | 1   | 0   | 12  |
| Galium verum           | 4   |   | 4  | 22  | 14  | 0   | 40  |
| Genista germanica      | 3.5 | l | 0  | 4   | 4   | 0   | 8   |
| Genista sagittalis     | 3.5 |   | 5  | 0   | 4   | 0   | 9   |
| Genista tinctoria      | 4.5 | l | 0  | 0   | 1   | 0   | 1   |
| Gentiana acaulis       | 1.5 |   | 0  | 8   | 54  | 174 | 236 |
| Gentiana asclepiadea   | 3   | l | 0  | 11  | 40  | 10  | 61  |
| Gentiana bavarica      | 1.5 |   | 0  | 0   | 1   | 71  | 72  |
| Gentiana brachyphylla  | 1   |   | 0  | 0   | 0   | 36  | 36  |
| Gentiana campestris    | 2   |   | 0  | 0   | 27  | 103 | 130 |
| Gentiana ciliata       | 3   |   | 0  | 0   | 6   | 5   | 11  |
| Gentiana clusii        | 1.5 |   | 0  | 0   | 8   | 35  | 43  |
| Gentiana germanica     | 3   |   | 0  | 2   | 1   | 3   | 6   |
| Gentiana lutea         | 2.5 | l | 0  | 3   | 54  | 19  | 76  |
| Gentiana nivalis       | 1.5 |   | 0  | 0   | 3   | 78  | 81  |
| Gentiana orbicularis   | 1   |   | 0  | 0   | 0   | 22  | 22  |
| Gentiana pneumonanthe  | 3.5 |   | 3  | 0   | 0   | 0   | 3   |
| Gentiana punctata      | 1.5 | l | 0  | 0   | 2   | 66  | 68  |
| Gentiana purpurea      | 2   | l | 0  | 0   | 29  | 65  | 94  |
| Gentiana ramosa        | 1.5 |   | 0  | 0   | 1   | 26  | 27  |
| Gentiana schleicheri   | 1   |   | 0  | 0   | 0   | 5   | 5   |
| Gentiana tenella       | 1   |   | 0  | 0   | 0   | 12  | 12  |
| Gentiana utriculosa    | 2.5 |   | 0  | 0   | 1   | 0   | 1   |
| Gentiana verna         | 2.5 |   | 0  | 8   | 32  | 113 | 153 |
| Geranium columbinum    | 4   | s | 1  | 9   | 0   | 0   | 10  |
| Geranium dissectum     | 4   | s | 1  | 23  | 0   | 0   | 24  |
| Geranium molle         | 4   | s | 6  | 4   | 0   | 0   | 10  |
| Geranium palustre      | 4   | l | 0  | 1   | 0   | 0   | 1   |
| Geranium pusillum      | 3.5 | s | 1  | 3   | 0   | 0   | 4   |
| Geranium pyrenaicum    | 4   | s | 2  | 43  | 0   | 0   | 45  |
| Geranium rivulare      | 2   | l | 0  | 0   | 0   | 1   | 1   |
| Geranium robertianum   | 4   |   | 61 | 290 | 48  | 0   | 399 |
| Geranium rotundifolium | 4.5 | s | 1  | 0   | 0   | 0   | 1   |
| Geranium sanguineum    | 3.5 | l | 1  | 4   | 0   | 0   | 5   |
| Geranium sylvaticum    | 2.5 | l | 3  | 191 | 317 | 78  | 589 |
| Geum montanum          | 1.5 | l | 0  | 4   | 45  | 292 | 341 |
| Geum reptans           | 1   | l | 0  | 0   | 0   | 28  | 28  |

|                                |     |   |     |     |     |     |     |
|--------------------------------|-----|---|-----|-----|-----|-----|-----|
| Geum rivale                    | 3   | l | 0   | 65  | 43  | 1   | 109 |
| Geum urbanum                   | 3.5 |   | 62  | 122 | 12  | 0   | 196 |
| Glechoma hederacea             | 4   | l | 119 | 285 | 4   | 0   | 408 |
| Globularia bisnagarica         | 4.5 |   | 4   | 0   | 0   | 0   | 4   |
| Globularia cordifolia          | 2.5 |   | 5   | 0   | 2   | 23  | 30  |
| Globularia nudicaulis          | 2   | l | 0   | 2   | 24  | 29  | 55  |
| Glyceria fluitans              | 3.5 |   | 0   | 2   | 2   | 0   | 4   |
| Glyceria notata                | 3   |   | 2   | 2   | 6   | 0   | 10  |
| Gnaphalium hoppeanum           | 1.5 |   | 0   | 0   | 0   | 12  | 12  |
| Gnaphalium norvegicum          | 2   |   | 0   | 0   | 8   | 20  | 28  |
| Gnaphalium supinum             | 1   |   | 0   | 0   | 1   | 263 | 264 |
| Gnaphalium sylvaticum          | 3   |   | 0   | 0   | 10  | 11  | 21  |
| Gnaphalium uliginosum          | 4   | s | 0   | 1   | 0   | 0   | 1   |
| Goodyera repens                | 3   |   | 1   | 10  | 4   | 0   | 15  |
| Gymnadenia conopsea            | 3   |   | 0   | 10  | 35  | 34  | 79  |
| Gymnadenia odoratissima        | 3   |   | 0   | 4   | 0   | 2   | 6   |
| Gymnocarpium dryopteris        | 2.5 |   | 0   | 37  | 86  | 7   | 130 |
| Gymnocarpium robertianum       | 2.5 |   | 0   | 7   | 9   | 1   | 17  |
| Gypsophila repens              | 2   |   | 2   | 1   | 25  | 38  | 66  |
| Hedera helix                   | 4   | l | 182 | 373 | 0   | 0   | 555 |
| Hedysarum hedysaroides         | 1.5 | l | 0   | 0   | 16  | 66  | 82  |
| Helianthemum alpestre          | 1.5 | l | 0   | 0   | 0   | 38  | 38  |
| Helianthemum nummularium       |     | l | 10  | 24  | 110 | 103 | 247 |
| Helictotrichon pratense        |     | l | 0   | 9   | 10  | 0   | 19  |
| Helictotrichon pubescens       | 3   |   | 23  | 130 | 64  | 10  | 227 |
| Helictotrichon versicolor      | 1.5 |   | 0   | 0   | 15  | 311 | 326 |
| Helleborus foetidus            | 3.5 | l | 7   | 13  | 6   | 0   | 26  |
| Hepatica nobilis               | 4   |   | 27  | 86  | 54  | 0   | 167 |
| Heracleum sphondylium          |     |   | 28  | 273 | 66  | 5   | 372 |
| Herniaria alpina               | 1   |   | 0   | 0   | 0   | 5   | 5   |
| Hieracium alpicola             | 1   |   | 0   | 0   | 0   | 2   | 2   |
| Hieracium alpinum              | 1.5 |   | 0   | 0   | 0   | 100 | 100 |
| Hieracium amplexicaule         | 2.5 |   | 0   | 3   | 0   | 1   | 4   |
| Hieracium angustifolium        | 1.5 |   | 0   | 0   | 2   | 47  | 49  |
| Hieracium cymosum bdm-aggr.    | 4   |   | 1   | 7   | 0   | 1   | 9   |
| Hieracium intybaceum           | 2   |   | 0   | 0   | 6   | 23  | 29  |
| Hieracium lactucella           | 3   |   | 3   | 45  | 122 | 53  | 223 |
| Hieracium murorum bdm-aggr.    |     |   | 44  | 325 | 477 | 147 | 993 |
| Hieracium piliferum aggr.      | 1   |   | 0   | 0   | 0   | 50  | 50  |
| Hieracium pilosella bdm-aggr.  |     |   | 9   | 53  | 136 | 100 | 298 |
| Hieracium pilosum              | 2   |   | 0   | 0   | 3   | 13  | 16  |
| Hieracium prenanthoides aggr.  | 2   | l | 0   | 5   | 27  | 10  | 42  |
| Hieracium staticifolium        | 2.5 |   | 0   | 0   | 4   | 9   | 13  |
| Hieracium umbellatum bdm-aggr. | 4   |   | 5   | 10  | 1   | 0   | 16  |
| Hieracium villosum             | 2   |   | 0   | 0   | 18  | 37  | 55  |
| Hierochloë odorata             | 3   | l | 0   | 0   | 0   | 1   | 1   |
| Hippocrepis comosa             | 3   |   | 4   | 32  | 82  | 68  | 186 |

|                           |     |   |     |     |     |     |     |
|---------------------------|-----|---|-----|-----|-----|-----|-----|
| Hippocrepis emerus        | 4   | l | 17  | 15  | 0   | 0   | 32  |
| Holcus lanatus            | 3.5 |   | 101 | 454 | 16  | 0   | 571 |
| Holcus mollis             | 3.5 |   | 3   | 24  | 0   | 0   | 27  |
| Homogyne alpina           | 2   |   | 0   | 23  | 331 | 520 | 874 |
| Hordelymus europaeus      | 3   | l | 0   | 84  | 28  | 0   | 112 |
| Hordeum murinum           | 4   | s | 0   | 1   | 0   | 0   | 1   |
| Humulus lupulus           | 4   | l | 1   | 4   | 0   | 0   | 5   |
| Huperzia selago           | 2   |   | 0   | 21  | 35  | 72  | 128 |
| Hypericum xdesetangsii    | 3.5 |   | 0   | 1   | 0   | 0   | 1   |
| Hypericum hirsutum        | 4   | l | 1   | 21  | 0   | 0   | 22  |
| Hypericum humifusum       | 3   |   | 0   | 9   | 0   | 0   | 9   |
| Hypericum maculatum       | 2   | l | 0   | 21  | 109 | 35  | 165 |
| Hypericum montanum        | 3.5 |   | 5   | 22  | 7   | 0   | 34  |
| Hypericum perforatum      | 4   |   | 13  | 48  | 14  | 1   | 76  |
| Hypericum tetrapterum     | 4   | l | 1   | 0   | 0   | 0   | 1   |
| Hypochaeris radicata      | 4   |   | 10  | 117 | 44  | 4   | 175 |
| Hypochaeris uniflora      | 2   |   | 0   | 0   | 8   | 26  | 34  |
| Ilex aquifolium           | 3.5 | l | 10  | 22  | 0   | 0   | 32  |
| Impatiens glandulifera    | 4   | l | 5   | 10  | 0   | 0   | 15  |
| Impatiens noli-tangere    | 3.5 | l | 13  | 58  | 2   | 0   | 73  |
| Impatiens parviflora      | 4   | s | 44  | 53  | 0   | 0   | 97  |
| Iris pseudacorus          | 4   |   | 4   | 0   | 0   | 0   | 4   |
| Jasione montana           | 4.5 |   | 1   | 2   | 0   | 0   | 3   |
| Juglans regia             | 4   | l | 14  | 12  | 0   | 0   | 26  |
| Juncus alpinoarticulatus  | 3.5 |   | 2   | 0   | 15  | 7   | 24  |
| Juncus articulatus        | 3   |   | 3   | 22  | 29  | 6   | 60  |
| Juncus bufonius           | 3.5 | s | 0   | 2   | 0   | 0   | 2   |
| Juncus compressus         | 3   |   | 0   | 1   | 0   | 0   | 1   |
| Juncus conglomeratus      | 3.5 | l | 3   | 3   | 0   | 0   | 6   |
| Juncus effusus            | 3.5 | l | 7   | 97  | 55  | 5   | 164 |
| Juncus filiformis         | 2.5 |   | 0   | 0   | 12  | 10  | 22  |
| Juncus inflexus           | 3   | l | 0   | 9   | 1   | 0   | 10  |
| Juncus jacquinii          | 1.5 | l | 0   | 0   | 0   | 71  | 71  |
| Juncus tenuis             | 3.5 |   | 4   | 3   | 0   | 0   | 7   |
| Juncus trifidus           | 1.5 |   | 0   | 0   | 12  | 104 | 116 |
| Juncus triglumis          | 1.5 |   | 0   | 0   | 0   | 8   | 8   |
| Juniperus communis        |     | l | 5   | 9   | 80  | 148 | 242 |
| Kernera saxatilis         | 2.5 |   | 0   | 0   | 0   | 4   | 4   |
| Knautia arvensis          | 3.5 | l | 27  | 47  | 11  | 0   | 85  |
| Knautia dipsacifolia      | 3   | l | 0   | 106 | 174 | 19  | 299 |
| Knautia drymeia           | 3.5 | l | 0   | 2   | 0   | 0   | 2   |
| Kobresia simpliciuscula   | 1.5 |   | 0   | 0   | 0   | 1   | 1   |
| Koeleria hirsuta          | 1.5 |   | 0   | 0   | 1   | 0   | 1   |
| Koeleria pyramidata aggr. | 3.5 |   | 5   | 9   | 19  | 4   | 37  |
| Laburnum alpinum          | 4   | l | 1   | 4   | 0   | 0   | 5   |
| Laburnum anagyroides      | 4.5 | l | 0   | 5   | 0   | 0   | 5   |
| Lactuca perennis          | 4.5 |   | 2   | 3   | 0   | 0   | 5   |

|                            |     |   |    |     |     |     |     |
|----------------------------|-----|---|----|-----|-----|-----|-----|
| Lactuca serriola           | 4.5 | s | 4  | 5   | 0   | 0   | 9   |
| Lamium album               | 4   | s | 0  | 7   | 2   | 0   | 9   |
| Lamium galeobdolon         | 3   |   | 68 | 425 | 111 | 0   | 604 |
| Lamium maculatum           | 3.5 |   | 8  | 12  | 8   | 0   | 28  |
| Lamium purpureum           | 3   | s | 16 | 45  | 0   | 0   | 61  |
| Lappula deflexa            | 2.5 | s | 0  | 4   | 0   | 0   | 4   |
| Lapsana communis           | 4   | s | 15 | 34  | 0   | 0   | 49  |
| Larix decidua              | 2   | l | 0  | 40  | 74  | 16  | 130 |
| Laserpitium gaudinii       | 2   | l | 0  | 4   | 9   | 0   | 13  |
| Laserpitium halleri        | 2   | l | 0  | 0   | 26  | 29  | 55  |
| Laserpitium latifolium     | 3   | l | 0  | 20  | 48  | 4   | 72  |
| Laserpitium siler          | 3.5 | l | 0  | 4   | 3   | 0   | 7   |
| Lathraea squamaria         | 4   |   | 1  | 0   | 0   | 0   | 1   |
| Lathyrus heterophyllus     | 3.5 | l | 0  | 2   | 0   | 0   | 2   |
| Lathyrus latifolius        | 4.5 | l | 0  | 1   | 0   | 0   | 1   |
| Lathyrus linifolius        | 4   |   | 0  | 2   | 9   | 0   | 11  |
| Lathyrus occidentalis      | 2   | l | 0  | 0   | 2   | 0   | 2   |
| Lathyrus palustris         | 4   |   | 4  | 0   | 0   | 0   | 4   |
| Lathyrus pratensis         | 3.5 |   | 21 | 264 | 45  | 0   | 330 |
| Lathyrus sylvestris        | 3.5 | l | 0  | 3   | 0   | 0   | 3   |
| Lathyrus vernus            | 3.5 |   | 11 | 64  | 8   | 0   | 83  |
| Laurus nobilis             | 5   | l | 6  | 0   | 0   | 0   | 6   |
| Leontodon autumnalis       | 3   | s | 4  | 54  | 97  | 34  | 189 |
| Leontodon helveticus       | 1.5 |   | 0  | 0   | 49  | 481 | 530 |
| Leontodon hispidus         |     |   | 33 | 126 | 216 | 263 | 638 |
| Leontodon incanus          | 3   |   | 0  | 0   | 1   | 2   | 3   |
| Leontodon montanus         | 1   |   | 0  | 0   | 1   | 28  | 29  |
| Leontopodium alpinum       | 1.5 | l | 0  | 0   | 0   | 6   | 6   |
| Lepidium virginicum        | 4.5 | s | 1  | 0   | 0   | 0   | 1   |
| Leucanthemopsis alpina     | 1   | l | 0  | 0   | 1   | 355 | 356 |
| Leucanthemum halleri       | 1.5 |   | 0  | 0   | 0   | 27  | 27  |
| Leucanthemum vulgare aggr. |     |   | 27 | 151 | 228 | 125 | 531 |
| Leucojum vernum            | 3.5 |   | 1  | 0   | 2   | 0   | 3   |
| Ligusticum mutellina       | 1.5 | l | 0  | 3   | 53  | 355 | 411 |
| Ligusticum mutellinoides   | 1   |   | 0  | 0   | 0   | 77  | 77  |
| Ligustrum vulgare          | 4   | l | 46 | 34  | 0   | 0   | 80  |
| Lilium bulbiferum          | 3   |   | 0  | 6   | 2   | 0   | 8   |
| Lilium martagon            | 3   |   | 0  | 7   | 18  | 6   | 31  |
| Linaria alpina             | 1.5 |   | 0  | 0   | 4   | 76  | 80  |
| Linnaea borealis           | 2   |   | 0  | 0   | 3   | 0   | 3   |
| Linum alpinum              | 2   |   | 0  | 0   | 14  | 0   | 14  |
| Linum catharticum          | 4   |   | 5  | 51  | 75  | 45  | 176 |
| Listera cordata            | 2.5 |   | 0  | 0   | 11  | 2   | 13  |
| Listera ovata              | 3   |   | 2  | 34  | 47  | 6   | 89  |
| Lithospermum officinale    | 4   | l | 1  | 1   | 0   | 0   | 2   |
| Lloydia serotina           | 1   |   | 0  | 0   | 4   | 17  | 21  |
| Loiseleuria procumbens     | 1.5 |   | 0  | 0   | 0   | 121 | 121 |

|                             |     |   |     |     |     |     |     |
|-----------------------------|-----|---|-----|-----|-----|-----|-----|
| Lolium multiflorum          | 4.5 | l | 87  | 281 | 5   | 1   | 374 |
| Lolium perenne              | 3.5 | l | 157 | 689 | 69  | 0   | 915 |
| Lonicera alpigena           | 2.5 | l | 0   | 17  | 33  | 0   | 50  |
| Lonicera caerulea           | 2   | l | 0   | 0   | 0   | 1   | 1   |
| Lonicera nigra              | 2.5 | l | 0   | 66  | 54  | 0   | 120 |
| Lonicera periclymenum       | 4   | l | 0   | 4   | 0   | 0   | 4   |
| Lonicera xylosteum          | 3.5 | l | 30  | 141 | 2   | 0   | 173 |
| Lotus corniculatus aggr.    |     |   | 41  | 248 | 297 | 283 | 869 |
| Lotus pedunculatus          | 3.5 |   | 1   | 12  | 3   | 0   | 16  |
| Lunaria rediviva            | 3   | l | 0   | 4   | 4   | 0   | 8   |
| Luzula alpinopilosa         | 1   |   | 0   | 1   | 14  | 265 | 280 |
| Luzula campestris bdm-aggr. |     |   | 9   | 97  | 153 | 151 | 410 |
| Luzula lutea                | 1.5 |   | 0   | 1   | 13  | 109 | 123 |
| Luzula luzulina             | 2.5 |   | 0   | 24  | 75  | 5   | 104 |
| Luzula luzuloides           | 3   |   | 4   | 19  | 19  | 2   | 44  |
| Luzula nivea                | 2.5 | l | 30  | 99  | 47  | 0   | 176 |
| Luzula pilosa               | 3   |   | 7   | 65  | 10  | 1   | 83  |
| Luzula spicata              | 1.5 |   | 0   | 0   | 3   | 98  | 101 |
| Luzula sylvatica aggr.      |     | l | 3   | 116 | 288 | 89  | 496 |
| Lycopodium annotinum        | 2   |   | 0   | 9   | 45  | 4   | 58  |
| Lycopus europaeus           | 4   |   | 4   | 0   | 0   | 0   | 4   |
| Lysimachia nemorum          | 3   | l | 6   | 194 | 92  | 0   | 292 |
| Lysimachia nummularia       | 3.5 |   | 37  | 63  | 2   | 1   | 103 |
| Lysimachia vulgaris         | 3.5 | l | 8   | 7   | 0   | 0   | 15  |
| Lythrum salicaria           | 4   | l | 12  | 5   | 0   | 0   | 17  |
| Mahonia aquifolium          | 4.5 | l | 1   | 0   | 0   | 0   | 1   |
| Maianthemum bifolium        | 3   |   | 5   | 104 | 89  | 4   | 202 |
| Malus sylvestris            | 3.5 | l | 1   | 0   | 0   | 0   | 1   |
| Malva moschata              | 4   | l | 0   | 1   | 0   | 0   | 1   |
| Malva neglecta              | 3.5 | s | 0   | 2   | 0   | 0   | 2   |
| Matricaria chamomilla       | 4   | s | 0   | 3   | 1   | 0   | 4   |
| Matricaria discoidea        | 3.5 | s | 2   | 10  | 7   | 0   | 19  |
| Medicago falcata            | 4   | l | 0   | 3   | 0   | 0   | 3   |
| Medicago lupulina           | 4   | s | 28  | 152 | 28  | 0   | 208 |
| Medicago sativa             | 4   | l | 5   | 10  | 0   | 0   | 15  |
| Melampyrum pratense         | 3   | s | 6   | 17  | 13  | 13  | 49  |
| Melampyrum sylvaticum       | 2.5 | s | 1   | 88  | 161 | 37  | 287 |
| Melica ciliata              | 4.5 |   | 7   | 0   | 0   | 0   | 7   |
| Melica nutans               | 3.5 |   | 13  | 98  | 42  | 1   | 154 |
| Melica uniflora             | 4   |   | 6   | 9   | 0   | 0   | 15  |
| Melilotus albus             | 4   | s | 1   | 0   | 0   | 0   | 1   |
| Melilotus officinalis       | 4.5 | s | 0   | 9   | 0   | 0   | 9   |
| Melittis melissophyllum     | 4   |   | 17  | 10  | 0   | 0   | 27  |
| Mentha aquatica             | 3.5 |   | 8   | 1   | 0   | 0   | 9   |
| Mentha arvensis             | 3.5 |   | 1   | 0   | 4   | 0   | 5   |
| Mentha longifolia           | 3   |   | 1   | 20  | 5   | 0   | 26  |
| Menyanthes trifoliata       | 3   |   | 1   | 0   | 4   | 0   | 5   |

|                             |     |   |    |     |     |     |     |
|-----------------------------|-----|---|----|-----|-----|-----|-----|
| Mercurialis perennis        | 3.5 | l | 39 | 279 | 29  | 3   | 350 |
| Mespilus germanica          | 4.5 | l | 5  | 0   | 0   | 0   | 5   |
| Milium effusum              | 3.5 |   | 4  | 16  | 12  | 0   | 32  |
| Minuartia biflora           | 1   |   | 0  | 0   | 0   | 1   | 1   |
| Minuartia laricifolia       | 2.5 | l | 0  | 3   | 0   | 0   | 3   |
| Minuartia recurva           | 1.5 |   | 0  | 0   | 0   | 14  | 14  |
| Minuartia sedoides          | 1   |   | 0  | 0   | 0   | 110 | 110 |
| Minuartia verna             | 2   |   | 0  | 0   | 0   | 104 | 104 |
| Minuartia viscosa           | 4.5 | s | 0  | 2   | 0   | 0   | 2   |
| Moehringia ciliata          | 1   |   | 0  | 0   | 4   | 30  | 34  |
| Moehringia muscosa          | 3   |   | 7  | 12  | 13  | 2   | 34  |
| Moehringia trinervia        | 3   |   | 20 | 60  | 6   | 0   | 86  |
| Molinia arundinacea         | 3   |   | 29 | 58  | 8   | 0   | 95  |
| Molinia caerulea            | 3   |   | 8  | 13  | 48  | 8   | 77  |
| Moneses uniflora            | 2.5 |   | 0  | 1   | 8   | 1   | 10  |
| Monotropa hypopitys aggr.   | 3   |   | 0  | 2   | 2   | 0   | 4   |
| Muscari comosum             | 4.5 |   | 0  | 4   | 0   | 0   | 4   |
| Mycelis muralis             | 3.5 |   | 25 | 127 | 36  | 0   | 188 |
| Myosotis alpestris          | 1.5 |   | 0  | 5   | 26  | 187 | 218 |
| Myosotis arvensis           | 3.5 | s | 10 | 76  | 8   | 1   | 95  |
| Myosotis decumbens          | 2   |   | 1  | 7   | 3   | 1   | 12  |
| Myosotis nemorosa           | 3.5 |   | 0  | 15  | 4   | 0   | 19  |
| Myosotis ramosissima        | 3.5 | s | 5  | 1   | 0   | 0   | 6   |
| Myosotis scorpioides        | 3   |   | 1  | 21  | 24  | 0   | 46  |
| Myosotis stricta            | 4   | s | 1  | 4   | 0   | 0   | 5   |
| Myosotis sylvatica          | 3   |   | 2  | 48  | 34  | 1   | 85  |
| Myosoton aquaticum          | 3.5 | l | 1  | 2   | 0   | 0   | 3   |
| Myrrhis odorata             | 3   | l | 0  | 0   | 2   | 0   | 2   |
| Narcissus xverbanensis      | 3.5 |   | 0  | 2   | 0   | 0   | 2   |
| Nardus stricta              | 2.5 |   | 0  | 31  | 189 | 357 | 577 |
| Nasturtium officinale       | 4   |   | 0  | 1   | 0   | 0   | 1   |
| Neottia nidus-avis          | 3.5 |   | 0  | 19  | 4   | 0   | 23  |
| Nigritella rhellicani aggr. | 1.5 |   | 0  | 0   | 6   | 48  | 54  |
| Odontites luteus            | 4.5 | s | 1  | 0   | 0   | 0   | 1   |
| Oenothera biennis aggr.     | 4.5 | s | 1  | 1   | 0   | 0   | 2   |
| Onobrychis montana          | 2   | l | 0  | 0   | 21  | 0   | 21  |
| Onobrychis viciifolia       | 4   | l | 4  | 13  | 1   | 0   | 18  |
| Ononis natrix               | 4.5 | l | 3  | 0   | 0   | 0   | 3   |
| Ononis repens               | 3.5 | l | 0  | 5   | 3   | 0   | 8   |
| Ononis rotundifolia         | 4   | l | 1  | 0   | 0   | 0   | 1   |
| Ophioglossum vulgatum       | 3   |   | 0  | 1   | 0   | 0   | 1   |
| Oplismenus undulatifolius   | 5   |   | 4  | 0   | 0   | 0   | 4   |
| Orchis mascula              |     |   | 0  | 3   | 1   | 1   | 5   |
| Orchis morio                | 4   |   | 2  | 0   | 0   | 0   | 2   |
| Oreochloa disticha          | 1   |   | 0  | 0   | 0   | 32  | 32  |
| Oreopteris limbosperma      | 2.5 |   | 0  | 30  | 66  | 6   | 102 |
| Origanum vulgare            | 3.5 |   | 15 | 20  | 6   | 0   | 41  |

|                               |     |   |    |     |     |     |      |
|-------------------------------|-----|---|----|-----|-----|-----|------|
| Ornithogalum umbellatum aggr. |     |   | 3  | 0   | 0   | 0   | 3    |
| Orobancha caryophyllacea      | 4.5 |   | 0  | 2   | 0   | 0   | 2    |
| Orobancha hederæ              | 4.5 |   | 1  | 0   | 0   | 0   | 1    |
| Orthilia secunda              | 2.5 |   | 2  | 20  | 27  | 0   | 49   |
| Ostrya carpinifolia           | 4.5 | l | 5  | 2   | 0   | 0   | 7    |
| Oxalis acetosella             | 3   |   | 42 | 645 | 339 | 29  | 1055 |
| Oxalis stricta                | 4   | s | 12 | 7   | 0   | 0   | 19   |
| Oxyria digyna                 | 1   |   | 0  | 0   | 0   | 79  | 79   |
| Oxytropis campestris          | 1.5 | l | 0  | 0   | 10  | 15  | 25   |
| Oxytropis helvetica           | 1.5 |   | 0  | 0   | 0   | 3   | 3    |
| Oxytropis jacquinii           | 1.5 | l | 0  | 0   | 0   | 15  | 15   |
| Oxytropis lapponica           | 1.5 | l | 0  | 0   | 0   | 1   | 1    |
| Panicum capillare aggr.       | 4.5 | s | 1  | 4   | 0   | 0   | 5    |
| Papaver alpinum aggr.         | 1.5 |   | 0  | 0   | 0   | 5   | 5    |
| Papaver rhoeas                | 4   | s | 0  | 4   | 0   | 0   | 4    |
| Paradisea liliastrum          | 2   | l | 0  | 2   | 15  | 0   | 17   |
| Paris quadrifolia             | 3   |   | 11 | 125 | 85  | 0   | 221  |
| Parnassia palustris           | 2   |   | 3  | 6   | 68  | 91  | 168  |
| Pastinaca sativa              | 4.5 |   | 0  | 3   | 0   | 0   | 3    |
| Pedicularis ascendens         | 1.5 |   | 0  | 0   | 4   | 0   | 4    |
| Pedicularis foliosa           | 2   |   | 0  | 1   | 4   | 4   | 9    |
| Pedicularis kernerii          | 1   |   | 0  | 0   | 0   | 43  | 43   |
| Pedicularis oederi            | 1.5 |   | 0  | 0   | 0   | 1   | 1    |
| Pedicularis recutita          | 2   |   | 0  | 0   | 0   | 6   | 6    |
| Pedicularis tuberosa          | 1.5 |   | 0  | 2   | 15  | 22  | 39   |
| Pedicularis verticillata      | 1.5 |   | 0  | 0   | 7   | 54  | 61   |
| Petasites albus               | 3   | l | 0  | 77  | 95  | 1   | 173  |
| Petasites hybridus            | 3   | l | 0  | 4   | 3   | 0   | 7    |
| Petasites paradoxus           | 2   | l | 1  | 4   | 11  | 1   | 17   |
| Peucedanum carvifolia         | 4.5 | l | 0  | 2   | 0   | 0   | 2    |
| Peucedanum cervaria           | 4   | l | 4  | 0   | 0   | 0   | 4    |
| Peucedanum oreoselinum        | 4.5 | l | 1  | 2   | 8   | 0   | 11   |
| Peucedanum ostruthium         | 2   | l | 0  | 8   | 70  | 44  | 122  |
| Peucedanum palustre           | 4   |   | 6  | 0   | 0   | 0   | 6    |
| Phalaris arundinacea          | 4   | l | 6  | 0   | 0   | 0   | 6    |
| Phegopteris connectilis       | 3   | l | 1  | 35  | 37  | 2   | 75   |
| Phleum alpinum aggr.          | 1.5 | l | 0  | 13  | 152 | 226 | 391  |
| Phleum hirsutum               | 2   | l | 0  | 1   | 47  | 28  | 76   |
| Phleum phleoides              | 4.5 |   | 4  | 1   | 3   | 0   | 8    |
| Phleum pratense aggr.         | 3.5 |   | 43 | 295 | 46  | 1   | 385  |
| Phragmites australis          | 4   | l | 16 | 0   | 0   | 0   | 16   |
| Phyllitis scolopendrium       | 3   |   | 0  | 7   | 0   | 0   | 7    |
| Phyteuma betonicifolium       | 2   | l | 20 | 61  | 127 | 70  | 278  |
| Phyteuma globulariifolium     | 1   |   | 0  | 0   | 0   | 20  | 20   |
| Phyteuma hedraianthifolium    | 1   |   | 0  | 0   | 0   | 1   | 1    |
| Phyteuma hemisphaericum       | 1.5 |   | 0  | 0   | 7   | 264 | 271  |
| Phyteuma orbiculare           | 2.5 |   | 0  | 31  | 92  | 50  | 173  |

|                            |     |   |     |     |     |     |      |
|----------------------------|-----|---|-----|-----|-----|-----|------|
| Phyteuma ovatum            | 2   | l | 0   | 3   | 23  | 2   | 28   |
| Phyteuma scheuchzeri       | 2.5 |   | 10  | 41  | 9   | 3   | 63   |
| Phyteuma spicatum          | 3   | l | 22  | 171 | 131 | 9   | 333  |
| Phytolacca americana       | 4.5 | l | 3   | 0   | 0   | 0   | 3    |
| Picea abies                | 2.5 | l | 55  | 624 | 433 | 48  | 1160 |
| Picris hieracioides        | 4   | l | 5   | 27  | 5   | 0   | 37   |
| Pimpinella major           | 3   | l | 8   | 59  | 71  | 13  | 151  |
| Pimpinella saxifraga aggr. | 4   |   | 9   | 65  | 53  | 2   | 129  |
| Pinguicula alpina          | 2   |   | 0   | 0   | 18  | 39  | 57   |
| Pinguicula leptoceras      | 1.5 |   | 0   | 0   | 1   | 1   | 2    |
| Pinguicula vulgaris        | 3   |   | 0   | 2   | 0   | 2   | 4    |
| Pinus cembra               | 2   | l | 0   | 0   | 35  | 11  | 46   |
| Pinus mugo                 | 2   | l | 0   | 3   | 20  | 9   | 32   |
| Pinus sylvestris           |     | l | 10  | 58  | 0   | 0   | 68   |
| Plantago alpina            | 1.5 |   | 0   | 0   | 73  | 157 | 230  |
| Plantago atrata            | 1.5 |   | 0   | 11  | 69  | 105 | 185  |
| Plantago lanceolata        | 3   |   | 110 | 593 | 173 | 11  | 887  |
| Plantago major             | 3   |   | 105 | 339 | 61  | 3   | 508  |
| Plantago media             | 3.5 |   | 14  | 111 | 83  | 10  | 218  |
| Plantago serpentina        | 2.5 |   | 0   | 0   | 5   | 2   | 7    |
| Platanthera bifolia        | 3.5 |   | 1   | 9   | 2   | 0   | 12   |
| Platanthera chlorantha     | 3.5 |   | 0   | 1   | 3   | 0   | 4    |
| Poa alpina                 | 1.5 |   | 0   | 13  | 138 | 521 | 672  |
| Poa annua                  | 3.5 | s | 89  | 262 | 43  | 2   | 396  |
| Poa bulbosa                | 4.5 |   | 1   | 6   | 0   | 0   | 7    |
| Poa cenisia                | 1.5 |   | 0   | 1   | 0   | 19  | 20   |
| Poa chaixii                | 2.5 | l | 1   | 6   | 34  | 19  | 60   |
| Poa compressa              | 4   |   | 4   | 2   | 1   | 0   | 7    |
| Poa glauca                 | 1.5 |   | 0   | 0   | 0   | 2   | 2    |
| Poa hybrida                | 2.5 |   | 0   | 0   | 2   | 0   | 2    |
| Poa laxa                   | 1   |   | 0   | 0   | 0   | 146 | 146  |
| Poa minor                  | 1   |   | 0   | 0   | 0   | 59  | 59   |
| Poa nemoralis              | 3   |   | 16  | 100 | 52  | 15  | 183  |
| Poa palustris              | 4   |   | 1   | 0   | 0   | 0   | 1    |
| Poa pratensis aggr.        | 3   |   | 115 | 536 | 89  | 2   | 742  |
| Poa supina                 | 2.5 |   | 1   | 29  | 36  | 21  | 87   |
| Poa trivialis              | 3   |   | 172 | 687 | 125 | 1   | 985  |
| Poa variegata              | 2   |   | 0   | 0   | 16  | 12  | 28   |
| Polygala alpestris         | 2   | l | 0   | 4   | 68  | 66  | 138  |
| Polygala alpina            | 1.5 |   | 0   | 0   | 1   | 5   | 6    |
| Polygala amarella          | 3   |   | 2   | 9   | 3   | 3   | 17   |
| Polygala chamaebuxus       | 2.5 | l | 3   | 54  | 97  | 55  | 209  |
| Polygala pedemontana       | 4   |   | 0   | 0   | 2   | 0   | 2    |
| Polygala serpyllifolia     | 3   |   | 0   | 0   | 1   | 1   | 2    |
| Polygala vulgaris          | 3.5 |   | 1   | 13  | 23  | 4   | 41   |
| Polygonatum multiflorum    | 3.5 |   | 40  | 42  | 2   | 0   | 84   |
| Polygonatum odoratum       | 3   |   | 0   | 5   | 1   | 0   | 6    |

|                           |     |   |    |     |     |     |     |
|---------------------------|-----|---|----|-----|-----|-----|-----|
| Polygonatum verticillatum | 2.5 |   | 0  | 146 | 75  | 6   | 227 |
| Polygonum aviculare aggr. | 4   | s | 34 | 121 | 11  | 3   | 169 |
| Polygonum bistorta        | 2.5 | l | 0  | 120 | 107 | 4   | 231 |
| Polygonum hydropiper      | 3.5 | s | 1  | 2   | 0   | 0   | 3   |
| Polygonum lapathifolium   | 3.5 | s | 1  | 0   | 0   | 0   | 1   |
| Polygonum minus           | 4   | s | 0  | 2   | 0   | 0   | 2   |
| Polygonum mite            | 4   | s | 3  | 0   | 0   | 0   | 3   |
| Polygonum persicaria      | 3.5 | s | 4  | 6   | 0   | 0   | 10  |
| Polygonum viviparum       | 1.5 |   | 0  | 6   | 95  | 399 | 500 |
| Polypodium interjectum    | 4.5 |   | 0  | 1   | 0   | 0   | 1   |
| Polypodium vulgare        | 3   |   | 12 | 51  | 7   | 0   | 70  |
| Polystichum aculeatum     | 3   | l | 0  | 37  | 3   | 1   | 41  |
| Polystichum lonchitis     | 2.5 |   | 0  | 2   | 28  | 21  | 51  |
| Populus nigra aggr.       |     |   | 0  | 1   | 0   | 0   | 1   |
| Populus tremula           | 3   | l | 11 | 28  | 1   | 0   | 40  |
| Portulaca oleracea        | 4.5 | s | 4  | 0   | 0   | 0   | 4   |
| Potentilla anserina       | 3   |   | 2  | 14  | 0   | 0   | 16  |
| Potentilla argentea       | 3   |   | 0  | 5   | 0   | 0   | 5   |
| Potentilla aurea          | 1.5 | l | 0  | 22  | 191 | 403 | 616 |
| Potentilla brauneana      | 1   |   | 0  | 0   | 0   | 8   | 8   |
| Potentilla crantzii       | 1.5 | l | 0  | 4   | 64  | 67  | 135 |
| Potentilla erecta         | 3   |   | 5  | 127 | 312 | 96  | 540 |
| Potentilla grandiflora    | 1.5 | l | 0  | 0   | 18  | 38  | 56  |
| Potentilla inclinata      | 4.5 |   | 0  | 2   | 0   | 0   | 2   |
| Potentilla micrantha      | 4.5 |   | 0  | 6   | 0   | 0   | 6   |
| Potentilla pusilla        | 4   |   | 2  | 5   | 9   | 0   | 16  |
| Potentilla recta          | 4.5 |   | 0  | 1   | 0   | 0   | 1   |
| Potentilla reptans        | 3.5 |   | 44 | 114 | 0   | 0   | 158 |
| Potentilla rupestris      | 3.5 |   | 3  | 2   | 0   | 0   | 5   |
| Potentilla sterilis       | 3.5 |   | 13 | 114 | 4   | 0   | 131 |
| Potentilla verna          | 4.5 |   | 6  | 15  | 15  | 3   | 39  |
| Prenanthes purpurea       | 3   | l | 4  | 161 | 105 | 0   | 270 |
| Primula acaulis           | 4.5 | l | 18 | 3   | 0   | 0   | 21  |
| Primula auricula          | 1.5 |   | 0  | 0   | 8   | 13  | 21  |
| Primula elatior           | 3   | l | 9  | 197 | 134 | 14  | 354 |
| Primula farinosa          | 2   |   | 0  | 3   | 22  | 44  | 69  |
| Primula hirsuta           | 1.5 |   | 0  | 9   | 7   | 76  | 92  |
| Primula integrifolia      | 1.5 |   | 0  | 0   | 1   | 96  | 97  |
| Primula latifolia         | 1   |   | 0  | 0   | 0   | 7   | 7   |
| Primula veris             |     |   | 9  | 53  | 27  | 1   | 90  |
| Pritzelago alpina         | 1   |   | 0  | 0   | 3   | 96  | 99  |
| Prunella grandiflora      | 3.5 |   | 4  | 23  | 49  | 4   | 80  |
| Prunella vulgaris         | 3   |   | 59 | 359 | 223 | 48  | 689 |
| Prunus avium              | 4   | l | 58 | 98  | 0   | 0   | 156 |
| Prunus domestica          |     |   | 3  | 3   | 0   | 0   | 6   |
| Prunus laurocerasus       | 4.5 | l | 3  | 1   | 0   | 0   | 4   |
| Prunus mahaleb            | 4.5 | l | 4  | 0   | 0   | 0   | 4   |

|                              |     |   |     |     |     |     |      |
|------------------------------|-----|---|-----|-----|-----|-----|------|
| Prunus padus                 | 3.5 | l | 4   | 24  | 0   | 0   | 28   |
| Prunus serotina              | 4.5 | l | 2   | 0   | 0   | 0   | 2    |
| Prunus spinosa               | 3.5 | l | 22  | 17  | 1   | 0   | 40   |
| Pseudolysimachion spicatum   | 3.5 |   | 1   | 1   | 8   | 0   | 10   |
| Pseudorchis albida           | 2   |   | 0   | 1   | 12  | 45  | 58   |
| Pseudotsuga menziesii        | 3.5 | l | 0   | 5   | 0   | 0   | 5    |
| Pteridium aquilinum          | 3   | l | 28  | 66  | 4   | 0   | 98   |
| Pulicaria dysenterica        | 4   | l | 1   | 0   | 0   | 0   | 1    |
| Pulmonaria australis         | 2   | l | 0   | 0   | 19  | 16  | 35   |
| Pulmonaria mollis aggr.      | 3   | l | 0   | 5   | 3   | 0   | 8    |
| Pulmonaria obscura           | 3.5 | l | 1   | 8   | 0   | 0   | 9    |
| Pulmonaria officinalis aggr. | 4.5 | l | 0   | 3   | 0   | 0   | 3    |
| Pulsatilla alpina            | 2   |   | 0   | 1   | 33  | 87  | 121  |
| Pulsatilla vernalis          | 2   |   | 0   | 0   | 10  | 71  | 81   |
| Pyrola minor                 | 2   |   | 0   | 0   | 4   | 17  | 21   |
| Pyrola rotundifolia          | 2.5 |   | 0   | 1   | 2   | 1   | 4    |
| Pyrus pyraeaster             | 4   | l | 1   | 1   | 0   | 0   | 2    |
| Quercus cerris               | 4.5 | l | 1   | 0   | 0   | 0   | 1    |
| Quercus petraea              | 4   | l | 23  | 25  | 0   | 0   | 48   |
| Quercus pubescens            | 4.5 | l | 16  | 7   | 0   | 0   | 23   |
| Quercus robur                | 4   | l | 36  | 51  | 3   | 0   | 90   |
| Quercus rubra                | 4.5 | l | 5   | 2   | 0   | 0   | 7    |
| Ranunculus aconitifolius     | 2.5 | l | 0   | 32  | 92  | 17  | 141  |
| Ranunculus acris             | 3   |   | 134 | 741 | 224 | 20  | 1119 |
| Ranunculus alpestris         | 1.5 |   | 0   | 0   | 3   | 114 | 117  |
| Ranunculus auricomus aggr.   | 4   |   | 8   | 6   | 0   | 0   | 14   |
| Ranunculus bulbosus          | 3   |   | 35  | 83  | 27  | 0   | 145  |
| Ranunculus ficaria           | 3.5 | s | 102 | 310 | 10  | 0   | 422  |
| Ranunculus flammula          | 3.5 |   | 4   | 1   | 6   | 0   | 11   |
| Ranunculus glacialis         | 1   |   | 0   | 0   | 0   | 70  | 70   |
| Ranunculus kuepferi          | 1.5 |   | 0   | 0   | 1   | 24  | 25   |
| Ranunculus lanuginosus       | 2.5 | l | 0   | 19  | 39  | 0   | 58   |
| Ranunculus montanus aggr.    | 2   | l | 0   | 48  | 235 | 355 | 638  |
| Ranunculus parnassiiifolius  | 1.5 |   | 0   | 0   | 0   | 1   | 1    |
| Ranunculus platanifolius     | 2.5 | l | 0   | 7   | 14  | 1   | 22   |
| Ranunculus repens            | 3   | s | 89  | 457 | 68  | 4   | 618  |
| Ranunculus tuberosus aggr.   | 3   | l | 2   | 105 | 232 | 32  | 371  |
| Reseda lutea                 | 4.5 |   | 0   | 1   | 0   | 0   | 1    |
| Reynoutria japonica aggr.    | 4   | l | 7   | 0   | 0   | 0   | 7    |
| Rhamnus alpina               | 3.5 | l | 0   | 6   | 0   | 0   | 6    |
| Rhamnus cathartica           | 3.5 | l | 0   | 1   | 0   | 0   | 1    |
| Rhamnus pumila               | 2   | l | 0   | 1   | 0   | 0   | 1    |
| Rhinanthus alectorolophus    | 3   | s | 13  | 55  | 62  | 6   | 136  |
| Rhinanthus glacialis         | 2.5 | s | 0   | 1   | 19  | 35  | 55   |
| Rhinanthus minor             | 3   | s | 0   | 9   | 21  | 10  | 40   |
| Rhodiola rosea               | 1.5 | l | 0   | 0   | 3   | 4   | 7    |
| Rhododendron ferrugineum     | 2   | l | 0   | 7   | 103 | 183 | 293  |

|                                  |     |   |     |     |     |     |     |
|----------------------------------|-----|---|-----|-----|-----|-----|-----|
| Rhododendron hirsutum            | 2   | l | 0   | 0   | 22  | 43  | 65  |
| Rhus typhina                     | 4.5 | l | 4   | 0   | 0   | 0   | 4   |
| Ribes alpinum                    | 2.5 | l | 0   | 12  | 7   | 0   | 19  |
| Ribes petraeum                   | 2.5 | l | 1   | 6   | 1   | 0   | 8   |
| Ribes rubrum                     | 3.5 | l | 0   | 3   | 0   | 0   | 3   |
| Ribes uva-crispa                 | 3.5 | l | 0   | 3   | 0   | 0   | 3   |
| Robinia pseudoacacia             | 4.5 | l | 14  | 7   | 0   | 0   | 21  |
| Rorippa xanceps                  | 4.5 |   | 1   | 0   | 0   | 0   | 1   |
| Rorippa palustris                | 3.5 | s | 2   | 1   | 0   | 0   | 3   |
| Rorippa sylvestris               | 3.5 |   | 0   | 1   | 0   | 0   | 1   |
| Rosa arvensis                    | 3.5 | l | 19  | 28  | 2   | 0   | 49  |
| Rosa canina aggr.                | 3   | l | 5   | 24  | 1   | 0   | 30  |
| Rosa corymbifera aggr.           | 3   | l | 0   | 1   | 0   | 0   | 1   |
| Rosa multiflora                  | 4.5 | l | 1   | 0   | 0   | 0   | 1   |
| Rosa pendulina                   | 2.5 | l | 0   | 30  | 90  | 5   | 125 |
| Rosa rubiginosa aggr.            | 3.5 | l | 0   | 3   | 0   | 0   | 3   |
| Rosa tomentosa aggr.             |     | l | 0   | 3   | 0   | 0   | 3   |
| Rubus caesius                    | 3.5 | l | 49  | 96  | 2   | 0   | 147 |
| Rubus fruticosus s. l. bdm-aggr. |     |   | 134 | 439 | 14  | 0   | 587 |
| Rubus idaeus                     | 3   |   | 15  | 372 | 242 | 17  | 646 |
| Rubus saxatilis                  | 3   |   | 1   | 44  | 52  | 6   | 103 |
| Rumex acetosa                    | 3.5 |   | 63  | 482 | 100 | 1   | 646 |
| Rumex acetosella                 | 3.5 |   | 2   | 4   | 5   | 2   | 13  |
| Rumex alpestris                  | 2   |   | 0   | 32  | 128 | 30  | 190 |
| Rumex alpinus                    | 2   | l | 0   | 8   | 25  | 4   | 37  |
| Rumex nivalis                    | 1   |   | 0   | 0   | 0   | 23  | 23  |
| Rumex obtusifolius               | 3.5 | l | 42  | 239 | 38  | 0   | 319 |
| Rumex sanguineus                 | 3.5 | l | 3   | 1   | 0   | 0   | 4   |
| Rumex scutatus                   | 2.5 |   | 10  | 11  | 23  | 10  | 54  |
| Ruscus aculeatus                 | 4.5 | l | 5   | 0   | 0   | 0   | 5   |
| Sagina apetala                   | 4   | s | 0   | 1   | 0   | 0   | 1   |
| Sagina procumbens                | 3.5 | s | 2   | 11  | 7   | 2   | 22  |
| Sagina saginoides                | 1.5 |   | 0   | 4   | 34  | 161 | 199 |
| Salix alba                       | 4   | l | 1   | 0   | 0   | 0   | 1   |
| Salix appendiculata              | 2.5 | l | 1   | 17  | 48  | 6   | 72  |
| Salix breviserrata               | 1.5 | l | 0   | 0   | 2   | 7   | 9   |
| Salix caprea                     | 3   | l | 3   | 24  | 18  | 3   | 48  |
| Salix cinerea                    | 3.5 | l | 4   | 3   | 4   | 0   | 11  |
| Salix foetida                    | 1.5 | l | 0   | 0   | 4   | 8   | 12  |
| Salix glaucosericea              | 1.5 | l | 0   | 0   | 0   | 1   | 1   |
| Salix hastata                    | 2   | l | 0   | 0   | 4   | 5   | 9   |
| Salix helvetica                  | 1.5 | l | 0   | 0   | 0   | 17  | 17  |
| Salix herbacea                   | 1   |   | 0   | 0   | 2   | 259 | 261 |
| Salix myrsinifolia               | 2.5 | l | 0   | 0   | 4   | 4   | 8   |
| Salix purpurea                   | 3   | l | 1   | 0   | 0   | 0   | 1   |
| Salix reticulata                 | 1.5 |   | 0   | 0   | 10  | 94  | 104 |
| Salix retusa                     | 1.5 |   | 0   | 0   | 13  | 165 | 178 |

|                          |     |   |    |    |    |     |     |
|--------------------------|-----|---|----|----|----|-----|-----|
| Salix serpyllifolia      | 1   |   | 0  | 0  | 0  | 33  | 33  |
| Salix viminalis          | 3.5 | l | 0  | 4  | 0  | 0   | 4   |
| Salix waldsteiniana      | 2   | l | 0  | 0  | 1  | 0   | 1   |
| Salvia glutinosa         | 3   | l | 7  | 23 | 1  | 0   | 31  |
| Salvia pratensis         | 3.5 |   | 13 | 21 | 10 | 0   | 44  |
| Sambucus ebulus          | 4   | l | 0  | 4  | 0  | 0   | 4   |
| Sambucus nigra           | 3.5 | l | 29 | 89 | 0  | 0   | 118 |
| Sambucus racemosa        | 2.5 | l | 1  | 35 | 17 | 0   | 53  |
| Sanguisorba minor        | 3.5 |   | 16 | 79 | 55 | 0   | 150 |
| Sanguisorba officinalis  | 3.5 | l | 0  | 6  | 23 | 0   | 29  |
| Sanicula europaea        | 3.5 |   | 0  | 46 | 14 | 0   | 60  |
| Saponaria ocymoides      | 3   |   | 10 | 14 | 0  | 0   | 24  |
| Saponaria officinalis    | 4.5 | l | 2  | 0  | 0  | 0   | 2   |
| Saussurea alpina         | 1.5 |   | 0  | 0  | 0  | 10  | 10  |
| Saussurea discolor       | 1.5 |   | 0  | 0  | 4  | 1   | 5   |
| Saxifraga aizoides       | 2   |   | 0  | 1  | 23 | 144 | 168 |
| Saxifraga androsacea     | 1   |   | 0  | 0  | 0  | 28  | 28  |
| Saxifraga aphylla        | 1   |   | 0  | 0  | 0  | 9   | 9   |
| Saxifraga aspera         | 2   |   | 0  | 3  | 0  | 7   | 10  |
| Saxifraga biflora aggr.  | 1   |   | 0  | 0  | 0  | 30  | 30  |
| Saxifraga bryoides       | 1   |   | 0  | 0  | 0  | 131 | 131 |
| Saxifraga caesia         | 1.5 |   | 0  | 0  | 3  | 28  | 31  |
| Saxifraga cotyledon      | 2.5 |   | 0  | 1  | 0  | 0   | 1   |
| Saxifraga cuneifolia     | 2.5 |   | 1  | 16 | 31 | 0   | 48  |
| Saxifraga exarata        |     |   | 0  | 1  | 2  | 76  | 79  |
| Saxifraga muscoides      | 1   |   | 0  | 0  | 0  | 4   | 4   |
| Saxifraga oppositifolia  | 1   |   | 0  | 0  | 8  | 147 | 155 |
| Saxifraga paniculata     | 2   |   | 0  | 9  | 19 | 87  | 115 |
| Saxifraga rotundifolia   | 2.5 | l | 0  | 21 | 88 | 15  | 124 |
| Saxifraga seguieri       | 1   |   | 0  | 0  | 0  | 55  | 55  |
| Saxifraga stellaris      | 1.5 |   | 0  | 4  | 10 | 86  | 100 |
| Scabiosa columbaria      | 4   |   | 6  | 19 | 40 | 8   | 73  |
| Scabiosa lucida          | 1.5 |   | 0  | 2  | 57 | 80  | 139 |
| Scabiosa triandra        | 4.5 |   | 0  | 1  | 0  | 0   | 1   |
| Scilla bifolia           | 4.5 |   | 7  | 0  | 0  | 0   | 7   |
| Scirpus sylvaticus       | 3   | l | 0  | 18 | 5  | 0   | 23  |
| Scleranthus annuus       | 3.5 | s | 0  | 1  | 0  | 0   | 1   |
| Scrophularia nodosa      | 3   | l | 10 | 22 | 0  | 0   | 32  |
| Scutellaria galericulata | 3.5 |   | 2  | 0  | 0  | 0   | 2   |
| Sedum acre               | 3   |   | 1  | 1  | 3  | 0   | 5   |
| Sedum album              | 3   |   | 16 | 20 | 7  | 6   | 49  |
| Sedum alpestre           | 1.5 |   | 0  | 2  | 1  | 177 | 180 |
| Sedum anacampseros       | 1.5 |   | 0  | 0  | 0  | 3   | 3   |
| Sedum annuum             | 2   |   | 0  | 2  | 2  | 3   | 7   |
| Sedum atratum            | 1.5 |   | 0  | 0  | 0  | 58  | 58  |
| Sedum cepaea             | 4.5 | s | 0  | 2  | 0  | 0   | 2   |
| Sedum dasyphyllum        | 3.5 |   | 1  | 4  | 3  | 0   | 8   |

|                          |     |   |    |     |     |     |     |
|--------------------------|-----|---|----|-----|-----|-----|-----|
| Sedum rupestre aggr.     |     |   | 4  | 8   | 0   | 2   | 14  |
| Sedum sexangulare        | 3.5 |   | 8  | 10  | 0   | 0   | 18  |
| Sedum telephium          | 3.5 |   | 15 | 4   | 0   | 0   | 19  |
| Sedum villosum           | 2   | s | 0  | 0   | 0   | 2   | 2   |
| Selaginella helvetica    | 3   |   | 0  | 5   | 3   | 0   | 8   |
| Selaginella selaginoides | 2   |   | 0  | 5   | 72  | 219 | 296 |
| Sempervivum arachnoideum | 2   |   | 0  | 9   | 1   | 27  | 37  |
| Sempervivum montanum     | 1.5 |   | 1  | 4   | 20  | 206 | 231 |
| Sempervivum tectorum     |     |   | 5  | 10  | 5   | 16  | 36  |
| Senecio abrotanifolius   | 2   |   | 0  | 0   | 0   | 3   | 3   |
| Senecio alpinus          | 2.5 | l | 0  | 7   | 16  | 5   | 28  |
| Senecio doronicum        | 1.5 |   | 0  | 0   | 3   | 69  | 72  |
| Senecio halleri          | 1   |   | 0  | 0   | 0   | 7   | 7   |
| Senecio hercynicus       | 2   | l | 0  | 3   | 9   | 3   | 15  |
| Senecio incanus          | 1   |   | 0  | 0   | 0   | 91  | 91  |
| Senecio jacobaea         | 4   | s | 0  | 13  | 2   | 0   | 15  |
| Senecio ovatus           | 3   | l | 3  | 37  | 35  | 10  | 85  |
| Senecio paludosus        | 4   |   | 1  | 0   | 0   | 0   | 1   |
| Senecio rupestris        | 2.5 | s | 0  | 0   | 2   | 0   | 2   |
| Senecio sylvaticus       | 3.5 | s | 1  | 0   | 0   | 0   | 1   |
| Senecio viscosus         | 2.5 | s | 3  | 2   | 0   | 0   | 5   |
| Senecio vulgaris         | 3.5 | s | 11 | 3   | 0   | 0   | 14  |
| Serratula tinctoria      |     | l | 2  | 0   | 0   | 0   | 2   |
| Seseli libanotis         | 3   | l | 0  | 1   | 6   | 4   | 11  |
| Sesleria caerulea        | 2   | l | 11 | 47  | 159 | 225 | 442 |
| Setaria pumila           | 4   | s | 11 | 7   | 0   | 0   | 18  |
| Setaria verticillata     | 5   | s | 2  | 0   | 0   | 0   | 2   |
| Setaria viridis          | 4   | s | 3  | 5   | 0   | 0   | 8   |
| Sibbaldia procumbens     | 1   |   | 0  | 0   | 3   | 140 | 143 |
| Silene acaulis           | 1   |   | 0  | 0   | 12  | 137 | 149 |
| Silene dioica            | 3   |   | 6  | 72  | 65  | 4   | 147 |
| Silene exscapa           | 1   |   | 0  | 0   | 0   | 91  | 91  |
| Silene flos-cuculi       | 3.5 |   | 5  | 29  | 6   | 0   | 40  |
| Silene nutans            | 3   | l | 10 | 34  | 53  | 14  | 111 |
| Silene pratensis         | 4   |   | 10 | 6   | 0   | 0   | 16  |
| Silene pusilla           | 2.5 |   | 0  | 0   | 0   | 4   | 4   |
| Silene rupestris         | 2.5 |   | 3  | 5   | 21  | 74  | 103 |
| Silene vulgaris          | 3   |   | 18 | 73  | 105 | 71  | 267 |
| Solanum dulcamara        | 3.5 |   | 1  | 10  | 0   | 0   | 11  |
| Solanum nigrum           | 3.5 | s | 4  | 1   | 0   | 0   | 5   |
| Soldanella alpina        | 2   |   | 0  | 11  | 166 | 291 | 468 |
| Soldanella pusilla       | 1.5 |   | 0  | 0   | 8   | 191 | 199 |
| Solidago canadensis      | 4   | l | 3  | 0   | 0   | 0   | 3   |
| Solidago gigantea        | 3.5 | l | 0  | 1   | 0   | 0   | 1   |
| Solidago virgaurea       |     | l | 19 | 189 | 282 | 218 | 708 |
| Sonchus arvensis         | 3.5 | s | 1  | 6   | 0   | 0   | 7   |
| Sonchus asper            | 3.5 | s | 6  | 43  | 3   | 0   | 52  |

|                                |     |   |     |     |     |     |      |
|--------------------------------|-----|---|-----|-----|-----|-----|------|
| Sonchus oleraceus              | 3.5 | s | 5   | 16  | 0   | 0   | 21   |
| Sorbus aria                    | 3.5 | l | 41  | 140 | 28  | 0   | 209  |
| Sorbus aucuparia               | 3   | l | 7   | 340 | 324 | 25  | 696  |
| Sorbus chamaemespilus          | 2   | l | 0   | 0   | 22  | 4   | 26   |
| Sorbus mougeotii               | 3   | l | 0   | 1   | 4   | 0   | 5    |
| Sorbus torminalis              | 4   | l | 0   | 4   | 0   | 0   | 4    |
| Spiranthes spiralis            | 3.5 |   | 1   | 0   | 0   | 0   | 1    |
| Stachys alpina                 | 2.5 | l | 0   | 16  | 4   | 0   | 20   |
| Stachys officinalis            | 3.5 |   | 16  | 30  | 11  | 0   | 57   |
| Stachys palustris              | 3.5 |   | 2   | 0   | 0   | 0   | 2    |
| Stachys recta                  | 3.5 |   | 1   | 6   | 8   | 0   | 15   |
| Stachys sylvatica              | 3.5 |   | 16  | 54  | 0   | 0   | 70   |
| Stellaria alsine               | 2.5 |   | 0   | 12  | 4   | 0   | 16   |
| Stellaria graminea             | 3.5 |   | 2   | 80  | 35  | 0   | 117  |
| Stellaria media aggr.          | 3   | s | 85  | 261 | 21  | 0   | 367  |
| Stellaria nemorum              | 2.5 |   | 1   | 37  | 63  | 5   | 106  |
| Stipa capillata                | 3.5 |   | 1   | 0   | 0   | 0   | 1    |
| Stipa pennata aggr.            | 3.5 |   | 0   | 0   | 0   | 1   | 1    |
| Streptopus amplexifolius       | 2.5 | l | 0   | 8   | 23  | 3   | 34   |
| Succisa pratensis              | 3   |   | 4   | 6   | 8   | 0   | 18   |
| Swertia perennis               | 2.5 |   | 0   | 0   | 1   | 0   | 1    |
| Symphytum asperum bdm-aggr.    | 4.5 | l | 1   | 0   | 0   | 0   | 1    |
| Symphytum officinale           | 3.5 | l | 8   | 6   | 0   | 0   | 14   |
| Symphytum tuberosum            | 4   | l | 0   | 4   | 0   | 0   | 4    |
| Tamus communis                 | 4.5 | l | 11  | 2   | 0   | 0   | 13   |
| Tanacetum corymbosum           | 4   | l | 0   | 1   | 0   | 0   | 1    |
| Tanacetum vulgare              | 4.5 | l | 0   | 2   | 0   | 0   | 2    |
| Taraxacum officinale bdm-aggr. |     |   | 210 | 924 | 252 | 180 | 1566 |
| Taxus baccata                  | 3.5 | l | 4   | 13  | 0   | 0   | 17   |
| Teucrium chamaedrys            | 4.5 |   | 20  | 23  | 6   | 0   | 49   |
| Teucrium montanum              | 3   |   | 4   | 2   | 2   | 0   | 8    |
| Teucrium scorodonia            | 3.5 |   | 13  | 38  | 0   | 0   | 51   |
| Thalictrum aquilegifolium      | 2.5 | l | 0   | 6   | 23  | 5   | 34   |
| Thalictrum minus               |     |   | 0   | 4   | 16  | 2   | 22   |
| Thesium alpinum                | 2   |   | 0   | 7   | 63  | 121 | 191  |
| Thesium pyrenaicum             | 2.5 |   | 0   | 2   | 4   | 4   | 10   |
| Thlaspi alpestre aggr.         | 1.5 |   | 0   | 1   | 1   | 0   | 2    |
| Thlaspi perfoliatum            | 4   | s | 5   | 10  | 1   | 0   | 16   |
| Thlaspi rotundifolium          | 1.5 |   | 0   | 0   | 0   | 44  | 44   |
| Thymus serpyllum aggr.         |     |   | 16  | 116 | 228 | 180 | 540  |
| Tilia cordata                  | 4   | l | 9   | 3   | 0   | 0   | 12   |
| Tilia platyphyllos             | 4   | l | 10  | 31  | 0   | 0   | 41   |
| Tofieldia calyculata           | 2.5 |   | 0   | 6   | 43  | 57  | 106  |
| Torilis arvensis               | 4.5 | s | 1   | 0   | 0   | 0   | 1    |
| Torilis japonica               | 4   | s | 0   | 5   | 0   | 0   | 5    |
| Tozzia alpina                  | 2.5 |   | 0   | 0   | 6   | 0   | 6    |
| Trachycarpus fortunei          | 5   | l | 1   | 0   | 0   | 0   | 1    |

|                             |     |   |     |     |     |     |      |
|-----------------------------|-----|---|-----|-----|-----|-----|------|
| Tragopogon dubius           | 4.5 |   | 0   | 1   | 0   | 0   | 1    |
| Tragopogon pratensis        | 4   |   | 6   | 62  | 29  | 0   | 97   |
| Traunsteinera globosa       | 2   |   | 0   | 0   | 7   | 3   | 10   |
| Trichophorum alpinum        | 3   |   | 0   | 0   | 0   | 1   | 1    |
| Trichophorum cespitosum     | 2.5 |   | 0   | 0   | 12  | 15  | 27   |
| Trifolium alpestre          | 4   |   | 0   | 5   | 0   | 0   | 5    |
| Trifolium alpinum           | 1.5 |   | 0   | 0   | 19  | 167 | 186  |
| Trifolium arvense           | 4   | s | 0   | 3   | 1   | 0   | 4    |
| Trifolium aureum            | 3.5 | s | 0   | 1   | 3   | 0   | 4    |
| Trifolium badium            | 2   |   | 0   | 5   | 61  | 127 | 193  |
| Trifolium campestre         | 4   | s | 1   | 3   | 0   | 0   | 4    |
| Trifolium dubium            | 3.5 | s | 6   | 46  | 1   | 0   | 53   |
| Trifolium medium            | 3.5 | l | 6   | 58  | 44  | 0   | 108  |
| Trifolium montanum          | 3   | l | 4   | 16  | 46  | 5   | 71   |
| Trifolium ochroleucon       | 4   | l | 1   | 0   | 0   | 0   | 1    |
| Trifolium pallescens        | 1.5 |   | 0   | 0   | 0   | 16  | 16   |
| Trifolium pratense          |     |   | 102 | 645 | 347 | 159 | 1253 |
| Trifolium repens            | 3   |   | 157 | 808 | 272 | 56  | 1293 |
| Trifolium spadiceum         | 2.5 |   | 0   | 0   | 1   | 0   | 1    |
| Trifolium thalii            | 1.5 | l | 0   | 1   | 21  | 62  | 84   |
| Triglochin palustris        | 2.5 |   | 0   | 0   | 2   | 5   | 7    |
| Tripleurospermum inodorum   | 3.5 | s | 0   | 1   | 0   | 0   | 1    |
| Trisetum distichophyllum    | 1.5 |   | 0   | 0   | 6   | 20  | 26   |
| Trisetum flavescens         | 3   |   | 46  | 344 | 86  | 5   | 481  |
| Trisetum spicatum           | 1   |   | 0   | 0   | 0   | 28  | 28   |
| Trollius europaeus          | 2.5 | l | 0   | 38  | 135 | 42  | 215  |
| Tussilago farfara           | 3   |   | 3   | 37  | 76  | 27  | 143  |
| Ulmus glabra                | 3.5 | l | 12  | 79  | 0   | 0   | 91   |
| Urtica dioica               | 3.5 | l | 55  | 111 | 44  | 5   | 215  |
| Vaccinium myrtillus         | 2.5 | l | 7   | 237 | 463 | 314 | 1021 |
| Vaccinium uliginosum aggr.  |     | l | 0   | 1   | 55  | 272 | 328  |
| Vaccinium vitis-idaea       | 2   |   | 0   | 43  | 231 | 187 | 461  |
| Valeriana dioica            | 3   |   | 4   | 31  | 27  | 0   | 62   |
| Valeriana montana           | 2   |   | 0   | 0   | 65  | 10  | 75   |
| Valeriana officinalis aggr. |     |   | 13  | 43  | 37  | 3   | 96   |
| Valeriana supina            | 1   |   | 0   | 0   | 0   | 3   | 3    |
| Valeriana tripteris         | 2.5 |   | 0   | 47  | 82  | 7   | 136  |
| Valerianella carinata       | 4.5 | s | 2   | 1   | 0   | 0   | 3    |
| Valerianella locusta        | 4   | s | 1   | 5   | 0   | 0   | 6    |
| Veratrum album              | 2   | l | 0   | 22  | 147 | 61  | 230  |
| Verbascum lychnitis         | 4   |   | 0   | 3   | 1   | 0   | 4    |
| Verbascum thapsus           | 4   |   | 0   | 0   | 1   | 0   | 1    |
| Verbena officinalis         | 3.5 | s | 6   | 5   | 1   | 0   | 12   |
| Veronica agrestis           | 3.5 | s | 3   | 2   | 0   | 0   | 5    |
| Veronica alpina             | 1.5 |   | 0   | 0   | 6   | 284 | 290  |
| Veronica aphylla            | 1.5 |   | 0   | 0   | 4   | 59  | 63   |
| Veronica arvensis           | 3.5 | s | 50  | 276 | 22  | 0   | 348  |

|                                 |     |   |    |     |     |     |     |
|---------------------------------|-----|---|----|-----|-----|-----|-----|
| Veronica beccabunga             | 3   |   | 2  | 14  | 10  | 0   | 26  |
| Veronica bellidioides           | 1   |   | 0  | 0   | 7   | 93  | 100 |
| Veronica chamaedrys             | 3   |   | 62 | 584 | 302 | 17  | 965 |
| Veronica filiformis             | 4   |   | 59 | 224 | 0   | 0   | 283 |
| Veronica fruticans              | 1.5 |   | 0  | 7   | 8   | 68  | 83  |
| Veronica fruticulosa            | 2   |   | 0  | 0   | 1   | 2   | 3   |
| Veronica hederifolia            | 4   | s | 22 | 29  | 0   | 0   | 51  |
| Veronica montana                | 3.5 |   | 13 | 35  | 4   | 0   | 52  |
| Veronica officinalis            | 3   | l | 3  | 130 | 172 | 11  | 316 |
| Veronica persica                | 3.5 | s | 47 | 115 | 1   | 0   | 163 |
| Veronica serpyllifolia          | 3   |   | 61 | 409 | 108 | 5   | 583 |
| Veronica teucrium               | 3.5 | l | 0  | 10  | 0   | 0   | 10  |
| Veronica urticifolia            | 2.5 | l | 6  | 132 | 154 | 0   | 292 |
| Veronica verna                  | 4   | s | 1  | 3   | 0   | 0   | 4   |
| Viburnum lantana                | 3.5 | l | 11 | 45  | 0   | 0   | 56  |
| Viburnum opulus                 | 3.5 | l | 2  | 34  | 0   | 0   | 36  |
| Vicia cracca                    | 3.5 |   | 8  | 65  | 27  | 0   | 100 |
| Vicia hirsuta                   | 4   | s | 2  | 3   | 0   | 0   | 5   |
| Vicia onobrychioides            | 4.5 | l | 0  | 4   | 0   | 0   | 4   |
| Vicia sativa                    | 4.5 | s | 15 | 23  | 1   | 0   | 39  |
| Vicia sepium                    | 3   | l | 37 | 244 | 42  | 0   | 323 |
| Vicia sylvatica                 | 2.5 | l | 0  | 6   | 5   | 0   | 11  |
| Vicia tetrasperma               | 4   | s | 1  | 0   | 0   | 0   | 1   |
| Vinca minor                     | 3.5 | l | 8  | 21  | 0   | 0   | 29  |
| Vincetoxicum hirundinaria       | 3.5 | l | 21 | 9   | 6   | 2   | 38  |
| Viola alba                      | 4.5 | l | 2  | 4   | 0   | 0   | 6   |
| Viola biflora                   | 2   |   | 1  | 81  | 251 | 124 | 457 |
| Viola calcarata                 | 1.5 | l | 0  | 2   | 10  | 71  | 83  |
| Viola canina                    | 3   |   | 1  | 8   | 10  | 2   | 21  |
| Viola cenisia                   | 1   |   | 0  | 0   | 0   | 6   | 6   |
| Viola collina                   | 4   | l | 1  | 7   | 0   | 0   | 8   |
| Viola hirta                     | 3.5 | l | 8  | 41  | 18  | 2   | 69  |
| Viola lutea                     | 2   | l | 0  | 0   | 0   | 5   | 5   |
| Viola odorata                   | 4   | l | 0  | 1   | 0   | 0   | 1   |
| Viola palustris                 | 3   |   | 0  | 4   | 12  | 14  | 30  |
| Viola pyrenaica                 | 2.5 | l | 0  | 1   | 3   | 0   | 4   |
| Viola reichenbachiana bdm-aggr. | 3   | l | 84 | 493 | 99  | 4   | 680 |
| Viola rupestris                 | 3   |   | 4  | 7   | 4   | 6   | 21  |
| Viola thomasiana                | 2   | l | 0  | 6   | 16  | 6   | 28  |
| Viola tricolor aggr.            | 3.5 | s | 6  | 22  | 9   | 1   | 38  |
| Viscum album                    | 4   |   | 1  | 3   | 0   | 0   | 4   |
| Willemetia stipitata            | 2.5 | l | 0  | 1   | 19  | 8   | 28  |

**Table S3. Data set to assess thermophilisation of plant communities and differences between lineages, land use types and elevation.** Total number (N) of plots, mean elevation of plots, and number of plots with thermophilisation estimate for the bryophyte and vascular plant community, respectively;  $\bar{x}$ NES: mean  $\pm$  SD notional elevation shift.

| Elevational zone | Land use type        | N plots total | Mean Elevation [m a.s.l.] | Lineages   |                    |                 |                  |
|------------------|----------------------|---------------|---------------------------|------------|--------------------|-----------------|------------------|
|                  |                      |               |                           | Bryophytes |                    | Vascular plants |                  |
|                  |                      |               |                           | N plots    | $\bar{x}$ NES      | N plots         | $\bar{x}$ NES    |
| Colline          | Managed grasslands   | 47            | 471                       | 33         | -79.4 $\pm$ 341.3  | 47              | 1.7 $\pm$ 56.3   |
| Colline          | Forests              | 67            | 548                       | 67         | 63.4 $\pm$ 289.0   | 67              | 9.2 $\pm$ 97.4   |
| Colline          | Unmanaged open areas | 2             | 367                       | 2          | -70.8 $\pm$ 107.1  | 2               | 168.1 $\pm$ 64.8 |
| Montane          | Managed grasslands   | 206           | 831                       | 140        | 55.3 $\pm$ 551.9   | 206             | 5.0 $\pm$ 46.6   |
| Montane          | Forests              | 304           | 949                       | 304        | 13.6 $\pm$ 215.0   | 304             | 9.1 $\pm$ 83.6   |
| Montane          | Unmanaged open areas | 2             | 1197                      | 2          | -139.2 $\pm$ 373.0 | 1               | 96.3 $\pm$ NA    |
| Subalpine        | Managed grasslands   | 88            | 1583                      | 83         | 176.6 $\pm$ 889.1  | 88              | 23.5 $\pm$ 65.7  |
| Subalpine        | Forests              | 140           | 1599                      | 140        | 23.5 $\pm$ 179.0   | 140             | 7.0 $\pm$ 61.9   |
| Subalpine        | Unmanaged open areas | 13            | 1699                      | 13         | 43.8 $\pm$ 273.4   | 13              | 37.9 $\pm$ 63.7  |
| Alpine           | Managed grasslands   | 115           | 2261                      | 115        | 82.9 $\pm$ 269.2   | 115             | 18.8 $\pm$ 57.8  |
| Alpine           | Forests              | 12            | 1964                      | 12         | -61.7 $\pm$ 524.8  | 12              | 55.2 $\pm$ 124.9 |
| Alpine           | Unmanaged open areas | 150           | 2391                      | 146        | 81.4 $\pm$ 381.4   | 143             | 27.3 $\pm$ 87.1  |
| Colline          | All types            | 116           | 514                       | 102        | 14.6 $\pm$ 310.2   | 116             | 8.9 $\pm$ 84.9   |
| Montane          | All types            | 512           | 903                       | 446        | 26.0 $\pm$ 356.9   | 511             | 7.6 $\pm$ 70.9   |
| Subalpine        | All types            | 241           | 1598                      | 236        | 78.5 $\pm$ 551.3   | 241             | 14.7 $\pm$ 63.9  |
| Alpine           | All types            | 277           | 2318                      | 273        | 75.8 $\pm$ 346.3   | 270             | 25.0 $\pm$ 78.2  |
| All zones        | Managed grasslands   | 456           | 1300                      | 371        | 79.0 $\pm$ 571.5   | 456             | 11.7 $\pm$ 55.1  |
| All zones        | Forests              | 523           | 1095                      | 523        | 20.9 $\pm$ 228.4   | 523             | 9.6 $\pm$ 81.6   |
| All zones        | Unmanaged open areas | 167           | 2299                      | 163        | 73.9 $\pm$ 371.0   | 159             | 30.2 $\pm$ 86.1  |
| All zones        | All types            | 1146          | 1352                      | 1057       | 49.5 $\pm$ 402.7   | 1138            | 13.3 $\pm$ 73.1  |

**Table S4. Descriptive statistics of the data set.** Mean number of species (N), mean community temperature index (CTI) and mean number of short-lived and long-lived species of bryophyte and vascular plant communities per survey across four elevational zones and three major land use types.

| Elevational zone | Land use type        | Bryophytes       |                 |                        |                       | Vascular plants  |                 |                        |                       |
|------------------|----------------------|------------------|-----------------|------------------------|-----------------------|------------------|-----------------|------------------------|-----------------------|
|                  |                      | N total $\pm$ SD | CTI $\pm$ SD    | N short-lived $\pm$ SD | N long-lived $\pm$ SD | N total $\pm$ SD | CTI $\pm$ SD    | N short-lived $\pm$ SD | N long-lived $\pm$ SD |
| Colline          | Forests              | 11.6 $\pm$ 5.9   | 3.24 $\pm$ 0.23 | 4.4 $\pm$ 3.1          | 19.9 $\pm$ 11.8       | 18.1 $\pm$ 9.8   | 3.45 $\pm$ 0.15 | 4.3 $\pm$ 6            | 31.1 $\pm$ 15.2       |
| Colline          | Managed grasslands   | 4 $\pm$ 3.2      | 3.48 $\pm$ 0.4  | 2.4 $\pm$ 3            | 4.6 $\pm$ 6.2         | 28.6 $\pm$ 10.7  | 3.43 $\pm$ 0.07 | 15.9 $\pm$ 9.6         | 22.2 $\pm$ 10.9       |
| Colline          | Unmanaged open areas | 15.6 $\pm$ 3.7   | 2.83 $\pm$ 0.02 | 8.5 $\pm$ 6            | 15.5 $\pm$ 2.4        | 17.5 $\pm$ 10.6  | 3.4 $\pm$ 0.24  | 4.9 $\pm$ 7            | 22.8 $\pm$ 11.7       |
| Montane          | Forests              | 14.5 $\pm$ 7.3   | 3.06 $\pm$ 0.2  | 5.7 $\pm$ 4.2          | 26.6 $\pm$ 13.8       | 19.3 $\pm$ 11.8  | 3.15 $\pm$ 0.24 | 2 $\pm$ 3.7            | 29.5 $\pm$ 15.3       |
| Montane          | Managed grasslands   | 4.8 $\pm$ 5.3    | 3.42 $\pm$ 0.41 | 2.8 $\pm$ 3.1          | 5.3 $\pm$ 9.5         | 32.7 $\pm$ 11.9  | 3.32 $\pm$ 0.13 | 12.9 $\pm$ 8.4         | 22.9 $\pm$ 11.9       |
| Montane          | Unmanaged open areas | 6.1 $\pm$ 5.5    | 2.97 $\pm$ 0.11 | 1.5 $\pm$ 2.1          | 7.1 $\pm$ 5.1         | 10.5 $\pm$ 14.5  | 3.46 $\pm$ 0.77 | 0.4 $\pm$ 0.5          | 13.9 $\pm$ 19.6       |
| Subalpine        | Forests              | 20.1 $\pm$ 8.4   | 2.72 $\pm$ 0.26 | 8.7 $\pm$ 5.7          | 31.9 $\pm$ 14.8       | 26.6 $\pm$ 12.2  | 2.63 $\pm$ 0.24 | 1.4 $\pm$ 1.6          | 29.1 $\pm$ 15.4       |
| Subalpine        | Managed grasslands   | 12.2 $\pm$ 8.6   | 2.91 $\pm$ 0.4  | 4.9 $\pm$ 4.5          | 14.4 $\pm$ 12.7       | 45.3 $\pm$ 13.7  | 2.75 $\pm$ 0.33 | 4.2 $\pm$ 4.5          | 28.9 $\pm$ 13.6       |
| Subalpine        | Unmanaged open areas | 17 $\pm$ 11.5    | 2.73 $\pm$ 0.39 | 8 $\pm$ 6.3            | 19.5 $\pm$ 17         | 34 $\pm$ 18.1    | 2.39 $\pm$ 0.51 | 2.2 $\pm$ 2.2          | 23.9 $\pm$ 16.5       |
| Alpine           | Forests              | 19 $\pm$ 8.9     | 2.37 $\pm$ 0.46 | 8.4 $\pm$ 5.6          | 24.2 $\pm$ 13.8       | 20.9 $\pm$ 12    | 2.23 $\pm$ 0.23 | 0.8 $\pm$ 1            | 14.6 $\pm$ 7.2        |
| Alpine           | Managed grasslands   | 16.9 $\pm$ 8.1   | 1.95 $\pm$ 0.55 | 6 $\pm$ 4.3            | 12.4 $\pm$ 9.5        | 39.1 $\pm$ 13.3  | 1.78 $\pm$ 0.33 | 1.7 $\pm$ 1.2          | 15.3 $\pm$ 9.2        |
| Alpine           | Unmanaged open areas | 14.1 $\pm$ 8.2   | 1.83 $\pm$ 0.6  | 5.4 $\pm$ 4.1          | 9.1 $\pm$ 8.8         | 20.9 $\pm$ 14.3  | 1.55 $\pm$ 0.37 | 0.8 $\pm$ 1            | 7.1 $\pm$ 8.2         |
| All plots        | —                    | 12.9 $\pm$ 8.8   | 2.8 $\pm$ 0.68  | 5.3 $\pm$ 4.6          | 17.3 $\pm$ 15.3       | 27.3 $\pm$ 15.1  | 2.76 $\pm$ 0.71 | 4.5 $\pm$ 6.9          | 23.4 $\pm$ 15.2       |

**Table S5. Results from the life strategy models.** Effects of life strategy type, elevation, and land use type on the notional elevation shift (NES) of (a) bryophyte and (b) vascular plant communities

*(a) Bryophytes.*

| <b>Predictor</b>                                                                            | <b>Estimate</b> | <b>SE</b> | <b><i>p</i></b> |
|---------------------------------------------------------------------------------------------|-----------------|-----------|-----------------|
| Notional elevation shift of short-lived bryophytes in grassland at 513 m a.s.l. (intercept) | 62.10           | 29.22     | 0.034           |
| Life strategy type: Long-lived                                                              | -21.92          | 16.72     | 0.190           |
| Elevation (per 100 m)                                                                       | 0.01            | 1.79      | 0.997           |
| Land use type: Forests                                                                      | -24.94          | 22.22     | 0.262           |
| Land use type: Unmanaged open areas                                                         | -37.31          | 27.49     | 0.175           |

*(b) Vascular plants*

| <b>Predictor</b>                                                                                 | <b>Estimate</b> | <b>SE</b> | <b><i>P</i></b> |
|--------------------------------------------------------------------------------------------------|-----------------|-----------|-----------------|
| Notional elevation shift of short-lived vascular plants in grassland at 513 m a.s.l. (intercept) | 3.55            | 11.08     | 0.749           |
| Life strategy type: Long-lived                                                                   | 11.10           | 10.28     | 0.281           |
| Elevation (per 100 m)                                                                            | -0.44           | 0.87      | 0.608           |
| Land use type: Forests                                                                           | 6.97            | 10.84     | 0.520           |
| Land use type: Unmanaged open areas                                                              | 35.08           | 18.38     | 0.057           |