

Electronic Appendix 1 List of species recorded in all 282 samples with total occurrence higher than two. Target species are displayed in bold, endangerment is considered according to Holub & Procházka 2000 (CR-critically endangered, EN – endangered, VU-vulnerable, NT-near threatened), origin according to Pyšek et al. 2002 (arch-archeophytes, neo-neophytes, empty-indigenous) and class according to Ellenberg et al. (1991) and Chytrý & Tichý (2003).

	Occurrences	Endangerment	Origin	Class
<i>Acer campestre</i>	62			<i>Quercu-Fagetea</i>
<i>Acer platanoides</i>	7			<i>Quercu-Fagetea</i>
<i>Acer pseudoplatanus</i>	4			<i>Quercu-Fagetea</i>
<i>Acinos arvensis</i>	6			Rest
<i>Adonis aestivalis</i>	10	EN	arch	Synanthropic
<i>Aegopodium podagraria</i>	12			Synanthropic
<i>Aethusa cynapium</i>	8	NT	arch	Synanthropic
<i>Agrimonia eupatoria</i>	23			<i>Trifolio-Geranieta</i>
<i>Agrostis capillaris</i>	21			Rest
<i>Agrostis gigantea</i>	24		neo	Rest
<i>Agrostis stolonifera</i>	18			Synanthropic
<i>Achillea millefolium</i> agg.	121			Rest
<i>Alchemilla species</i>	9			Rest
<i>Alliaria petiolata</i>	13			Synanthropic
<i>Allium vineale</i>	3			Synanthropic
<i>Alopecurus pratensis</i>	17			Rest
<i>Anagallis arvensis</i>	18		arch	Synanthropic
<i>Angelica sylvestris</i>	10			Rest
<i>Anthemis arvensis</i>	6		arch	Synanthropic
<i>Anthoxanthum odoratum</i>	4			Rest
<i>Anthriscus sylvestris</i>	32			Rest
<i>Apera spica-venti</i>	27		arch	Synanthropic
<i>Arabis hirsuta</i>	4			Rest
<i>Arabidopsis thaliana</i>	3			Rest
<i>Arctium tomentosum</i>	20		arch	Synanthropic
<i>Arenaria serpyllifolia</i>	14			Rest
<i>Arrhenatherum elatius</i>	111			Rest
<i>Artemisia vulgaris</i>	61			Synanthropic
<i>Asperula cynanchica</i>	18			<i>Festuco-Brometea</i>
<i>Astragalus glycyphyllos</i>	14			<i>Trifolio-Geranieta</i>
<i>Atriplex patula</i>	3		arch	Synanthropic
<i>Avena fatua</i>	10		arch	Synanthropic
<i>Ballota nigra</i>	3		arch	Synanthropic
<i>Betula pendula</i>	16			Rest
<i>Brachypodium pinnatum</i>	32			<i>Festuco-Brometea</i>

<i>Brachypodium sylvaticum</i>	11		<i>Quercu-Fagetea</i>
<i>Bromus benekenii</i>	10		<i>Quercu-Fagetea</i>
<i>Bromus erectus</i>	12		<i>Festuco-Brometea</i>
<i>Bupleurum falcatum</i>	10		<i>Trifolio-Geranietea</i>
<i>Calamagrostis epigejos</i>	30		Rest
<i>Campanula patula</i>	7		Rest
<i>Campanula rapunculoides</i>	24		<i>Trifolio-Geranietea</i>
<i>Campanula rotundifolia</i>	8		Rest
<i>Campanula trachelium</i>	5		<i>Quercu-Fagetea</i>
<i>Capsella bursa-pastoris</i>	14	arch	Synanthropic
<i>Carduus acanthoides</i>	23	arch	Synanthropic
<i>Carduus crispus</i>	4	arch	Synanthropic
<i>Carduus nutans</i>	3	NT	Synanthropic
<i>Carex contigua</i>	8		Rest
<i>Carex hirta</i>	7		Synanthropic
<i>Carex muricata</i> agg.	7		Rest
<i>Carlina vulgaris</i>	12		<i>Festuco-Brometea</i>
<i>Carpinus betulus</i>	17		<i>Quercu-Fagetea</i>
<i>Caucalis platycarpos</i>	4		Synanthropic
<i>Centaurea cyanus</i>	10	NT arch	Synanthropic
<i>Centaurea jacea</i>	9	NT	Rest
<i>Centaurea scabiosa</i>	30		<i>Festuco-Brometea</i>
<i>Centaurea stoebe</i>	3		Rest
<i>Cerastium arvense</i>	11		Synanthropic
<i>Cerastium holosteoides</i> ssp. <i>triviale</i>	10		Rest
<i>Cichorium intybus</i>	5	arch	Synanthropic
<i>Cirsium acaule</i>	9	NT	<i>Festuco-Brometea</i>
<i>Cirsium arvense</i>	96	arch	Synanthropic
<i>Cirsium palustre</i>	5		Rest
<i>Cirsium vulgare</i>	27	arch	Synanthropic
<i>Clinopodium vulgare</i>	7		<i>Trifolio-Geranietea</i>
<i>Consolida regalis</i>	14	arch	Synanthropic
<i>Convolvulus arvensis</i>	54	arch	Synanthropic
<i>Conyza canadensis</i>	11	neo	Synanthropic
<i>Cornus mas</i>	7		<i>Quercu-Fagetea</i>
<i>Cornus sanguinea</i>	29		<i>Quercu-Fagetea</i>
<i>Corylus avellana</i>	6		<i>Quercu-Fagetea</i>
<i>Cotoneaster integerrimus</i>	3	NT	<i>Quercu-Fagetea</i>
<i>Crataegus</i> spp.	89		<i>Quercu-Fagetea</i>
<i>Crepis biennis</i>	14	arch	Rest
<i>Cruciata laevipes</i>	3		Synanthropic
<i>Dactylis glomerata</i>	52		Rest
<i>Dactylis polygama</i>	4		<i>Quercu-Fagetea</i>
<i>Daucus carota</i>	50		Synanthropic
<i>Deschampsia cespitosa</i>	5		Rest
<i>Descurainia sophia</i>	3	arch	Synanthropic
<i>Dianthus carthusianorum</i>	11		<i>Festuco-Brometea</i>
<i>Echinochloa crus-galli</i>	6	arch	Synanthropic

<i>Echium vulgare</i>	10	arch	Synanthropic
<i>Elymus caninus</i>	3		Synanthropic
<i>Elytrigia repens</i>	124		Synanthropic
<i>Epilobium angustifolium</i>	6		Rest
<i>Epilobium ciliatum</i>	20	neo	Rest
<i>Epilobium hirsutum</i>	3		Synanthropic
<i>Epilobium montanum</i>	4		<i>Quercu-Fagetea</i>
<i>Epilobium roseum</i>	5		Synanthropic
<i>Epilobium species</i>	15		Rest
<i>Equisetum arvense</i>	14		Rest
<i>Erigeron acris</i>	3		<i>Festuco-Brometea</i>
<i>Erodium cicutarium</i>	6	arch	Rest
<i>Eryngium campestre</i>	17		<i>Festuco-Brometea</i>
<i>Euonymus europaea</i>	3		<i>Quercu-Fagetea</i>
<i>Euphorbia cyparissias</i>	40		<i>Festuco-Brometea</i>
<i>Euphorbia esula</i>	4		Rest
<i>Euphorbia exigua</i>	6	arch	Rest
<i>Euphorbia helioscopia</i>	3	arch	Synanthropic
<i>Fagus sylvatica</i>	4		<i>Quercu-Fagetea</i>
<i>Falcaria vulgaris</i>	22		Synanthropic
<i>Fallopia convolvulus</i>	32	arch	Synanthropic
<i>Festuca gigantea</i>	5		<i>Quercu-Fagetea</i>
<i>Festuca rubra</i>	28		Rest
<i>Festuca rupicola</i>	81		<i>Festuco-Brometea</i>
<i>Fragaria vesca</i>	9		Rest
<i>Fragaria viridis</i>	88		<i>Trifolio-Geranietea</i>
<i>Fraxinus excelsior</i>	40		<i>Quercu-Fagetea</i>
<i>Fumaria officinalis</i>	3	arch	Synanthropic
<i>Fumaria vaillantii</i>	4	arch	Rest
<i>Galeopsis bifida</i>	7		Rest
<i>Galeopsis speciosa</i>	6		Rest
<i>Galeopsis tetrahit</i>	3		Rest
<i>Galium album</i> agg.	83		Rest
<i>Galium aparine</i>	77		Synanthropic
<i>Galium glaucum</i>	7		<i>Trifolio-Geranietea</i>
<i>Galium odoratum</i>	8		<i>Quercu-Fagetea</i>
<i>Galinsoga parviflora</i>	6	neo	Synanthropic
<i>Galium pumilum</i>	8		Rest
<i>Galium spurium</i>	4	NT arch	Synanthropic
<i>Galium verum</i>	30		<i>Festuco-Brometea</i>
<i>Geranium palustre</i>	5		Rest
<i>Geranium pratense</i>	6		Rest
<i>Geranium pusillum</i>	21	arch	Synanthropic
<i>Geranium robertianum</i>	13		Synanthropic
<i>Geum urbanum</i>	54		<i>Quercu-Fagetea</i>
<i>Glechoma hederacea</i>	20		Synanthropic
<i>Gnaphalium sylvaticum</i>	6		Rest
<i>Helianthemum grandiflorum</i>	4		Rest

<i>Heracleum sphondylium</i>	10		Rest
<i>Hieracium pilosella</i>	15		Rest
<i>Hieracium sabaudum</i>	4		<i>Quercu-Fagetea</i>
<i>Holcus lanatus</i>	13		Rest
<i>Holcus mollis</i>	8		Rest
<i>Hordelymus europaeus</i>	6		<i>Quercu-Fagetea</i>
<i>Hypericum perforatum</i>	84		<i>Trifolio-Geranietea</i>
<i>Chaerophyllum temulum</i>	15		Synanthropic
<i>Chenopodium album</i>	34		Synanthropic
<i>Impatiens parviflora</i>	8	neo	Synanthropic
<i>Inula conyzae</i>	11		<i>Trifolio-Geranietea</i>
<i>Juncus bufonius</i>	3		Synanthropic
<i>Juncus effusus</i>	17		Rest
<i>Knautia arvensis</i>	43		Rest
<i>Lactuca serriola</i>	22	arch	Synanthropic
<i>Lamium album</i>	9	arch	Synanthropic
<i>Lamium amplexicaule</i>	7	arch	Synanthropic
<i>Lapsana communis</i>	21	arch	Synanthropic
<i>Lathyrus pratensis</i>	17		Rest
<i>Lathyrus tuberosus</i>	5		Synanthropic
<i>Leontodon hispidus</i>	19		Rest
<i>Leucanthemum vulgare</i> agg.	6		Rest
<i>Ligustrum vulgare</i>	27		<i>Quercu-Fagetea</i>
<i>Linaria vulgaris</i>	14	arch	Synanthropic
<i>Linum catharticum</i>	11		Rest
<i>Lonicera xylosteum</i>	9		<i>Quercu-Fagetea</i>
<i>Lotus corniculatus</i>	30		Rest
<i>Lycopsis arvensis</i>	4	NT arch	Synanthropic
<i>Lysimachia vulgaris</i>	4		Rest
<i>Lythrum salicaria</i>	8		Rest
<i>Matricaria recutita</i>	3		Synanthropic
<i>Medicago lupulina</i>	56	arch	<i>Festuco-Brometea</i>
<i>Medicago sativa</i>	9	neo	Rest
<i>Melampyrum arvense</i>	13	VU arch	Synanthropic
<i>Melilotus officinalis</i>	12	arch	Synanthropic
<i>Mentha arvensis</i>	16	arch	Rest
<i>Mentha longifolia</i>	4		Synanthropic
<i>Microrrhinum minus</i>	3	arch	Synanthropic
<i>Moehringia trinervia</i>	3		<i>Quercu-Fagetea</i>
<i>Myosoton aquaticum</i>	5		Synanthropic
<i>Myosotis arvensis</i>	27	arch	Synanthropic
<i>Neslia paniculata</i>	10	arch	Synanthropic
<i>Odontites vernus</i> ssp. <i>serotinus</i>	3		Rest
<i>Origanum vulgare</i>	6		<i>Trifolio-Geranietea</i>
<i>Papaver rhoeas</i>	21	arch	Synanthropic
<i>Pastinaca sativa</i>	8	NT arch	Synanthropic
<i>Persicaria hydropiper</i>	4		Synanthropic
<i>Persicaria lapathifolia</i>	4		Synanthropic

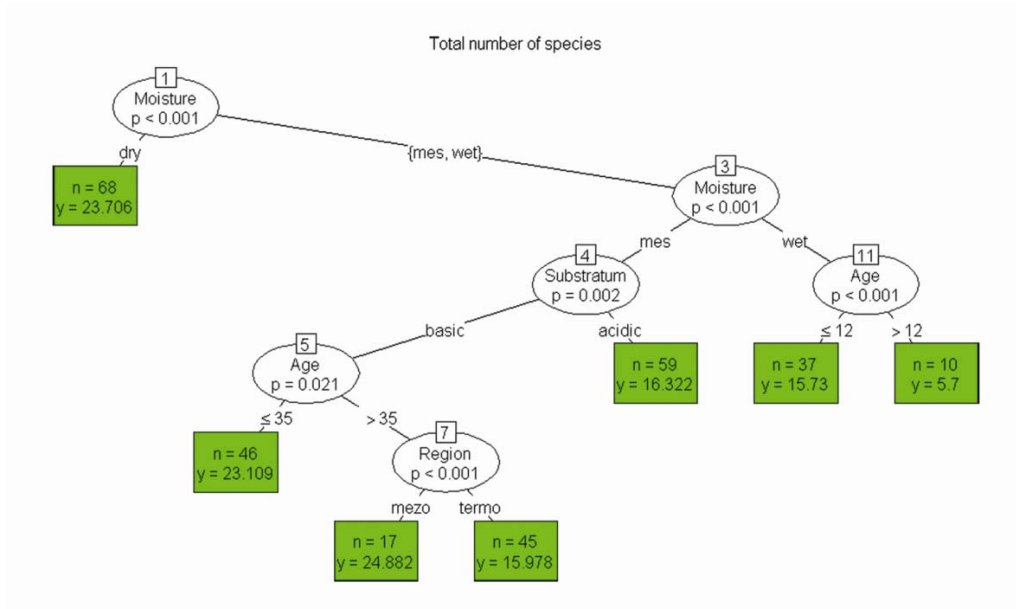
<i>Petasites hybridus</i>	18		Synanthropic
<i>Phalaris arundinacea</i>	16		Rest
<i>Phleum pratense</i>	19		Rest
<i>Phragmites australis</i>	21		Rest
<i>Picea abies</i>	3		Rest
<i>Picris hieracioides</i>	5		Synanthropic
<i>Pimpinella saxifraga</i>	34		<i>Festuco-Brometea</i>
<i>Pinus sylvestris</i>	9		Rest
<i>Plantago lanceolata</i>	56		Rest
<i>Plantago major</i>	17	arch	Rest
<i>Plantago media</i>	34		Rest
<i>Plantago uliginosa</i>	3		Rest
<i>Poa angustifolia</i>	75		<i>Festuco-Brometea</i>
<i>Poa compressa</i>	4		Synanthropic
<i>Poa nemoralis</i>	19		<i>Quercu-Fagetea</i>
<i>Poa palustris</i>	21		Rest
<i>Poa pratensis</i>	16		Rest
<i>Poa trivialis</i>	3		Rest
<i>Polygonum aviculare</i>	20	arch	Synanthropic
<i>Potentilla anserina</i>	11		Synanthropic
<i>Potentilla argentea</i>	4		Rest
<i>Potentilla filiformis</i>	8	NT	<i>Festuco-Brometea</i>
<i>Potentilla tabernaemontani</i>	16		<i>Festuco-Brometea</i>
<i>Primula veris</i>	6	NT	Rest
<i>Prunus avium</i>	5		<i>Quercu-Fagetea</i>
<i>Prunus spinosa</i>	55		<i>Quercu-Fagetea</i>
<i>Prunella vulgaris</i>	5		Rest
<i>Pulmonaria obscura</i>	4		<i>Quercu-Fagetea</i>
<i>Pyrethrum corymbosum</i>	5		<i>Quercu-Fagetea</i>
<i>Pyrus communis</i>	3	arch	Rest
<i>Pyrus pyraister</i>	4	NT	Rest
<i>Quercus petraea</i>	10		<i>Quercu-Fagetea</i>
<i>Quercus pubescens</i>	3	NT	<i>Quercu-Fagetea</i>
<i>Quercus robur</i>	11		<i>Quercu-Fagetea</i>
<i>Quercus spp.</i>	8		<i>Quercu-Fagetea</i>
<i>Ranunculus acris</i>	4		Rest
<i>Ranunculus bulbosus</i>	3		<i>Festuco-Brometea</i>
<i>Ranunculus repens</i>	27		Rest
<i>Rosa canina agg.</i>	107		<i>Quercu-Fagetea</i>
<i>Rubus caesius</i>	7		Rest
<i>Rubus idaeus</i>	4		Rest
<i>Rubus spp.</i>	16		Rest
<i>Rumex acetosa</i>	12		Rest
<i>Rumex acetosella</i>	5		Rest
<i>Rumex crispus</i>	48		Synanthropic
<i>Rumex obtusifolius</i>	8		Synanthropic
<i>Salix caprea</i>	8		Rest
<i>Salix cinerea</i>	16		Rest

<i>Salix fragilis</i>	4		Rest
<i>Salvia pratensis</i>	21		<i>Festuco-Brometea</i>
<i>Salvia verticillata</i>	12		Synanthropic
<i>Sambucus nigra</i>	11		Rest
<i>Sanguisorba minor</i>	64		<i>Festuco-Brometea</i>
<i>Scabiosa ochroleuca</i>	25		<i>Festuco-Brometea</i>
<i>Securigera varia</i>	84		<i>Trifolio-Geranietea</i>
<i>Sedum acre</i>	3		Rest
<i>Sedum sexangulare</i>	9		Rest
<i>Senecio jacobaea</i>	9		Rest
<i>Senecio ovatus</i>	5		Rest
<i>Seseli osseum</i>	3		Rest
<i>Sherardia arvensis</i>	9		Synanthropic
<i>Silene latifolia</i> ssp. <i>alba</i>	23	arch	Rest
<i>Silene noctiflora</i>	7	NT arch	Synanthropic
<i>Silene nutans</i>	3		<i>Trifolio-Geranietea</i>
<i>Silene vulgaris</i>	15		Rest
<i>Sinapis arvensis</i>	17	arch	Synanthropic
<i>Solidago canadensis</i>	6	neo	Synanthropic
<i>Sonchus arvensis</i>	14	arch	Synanthropic
<i>Sonchus oleraceus</i>	10	arch	Synanthropic
<i>Stachys palustris</i>	6		Rest
<i>Stachys recta</i>	3		<i>Festuco-Brometea</i>
<i>Stellaria graminea</i>	17		Rest
<i>Stellaria media</i>	20		Synanthropic
<i>Tanacetum vulgare</i>	15	arch	Synanthropic
<i>Taraxacum</i> sect. <i>Ruderalia</i>	90		Rest
<i>Teucrium chamaedrys</i>	19		Rest
<i>Thlaspi arvense</i>	8	arch	Synanthropic
<i>Thlaspi perfoliatum</i>	4		Rest
<i>Thymus pulegioides</i>	38		<i>Festuco-Brometea</i>
<i>Torilis japonica</i>	26		Synanthropic
<i>Trifolium arvense</i>	9		Rest
<i>Trifolium campestre</i>	17		Rest
<i>Trifolium hybridum</i>	6	neo	Synanthropic
<i>Trifolium medium</i>	11		<i>Trifolio-Geranietea</i>
<i>Trifolium pratense</i>	13		Rest
<i>Trifolium repens</i>	19		Rest
<i>Tripleurospermum inodorum</i>	42	arch	Rest
<i>Trisetum flavescens</i>	16		Rest
<i>Tussilago farfara</i>	13		Synanthropic
<i>Urtica dioica</i>	55		Synanthropic
<i>Valerianella dentata</i>	5	NT arch	Rest
<i>Valeriana officinalis</i> s.l.	4		Rest
<i>Verbascum lychnitis</i>	12		<i>Trifolio-Geranietea</i>
<i>Veronica agrestis</i>	8	EN arch	Synanthropic
<i>Veronica arvensis</i>	6	arch	Rest
<i>Veronica chamaedrys</i>	18		Rest

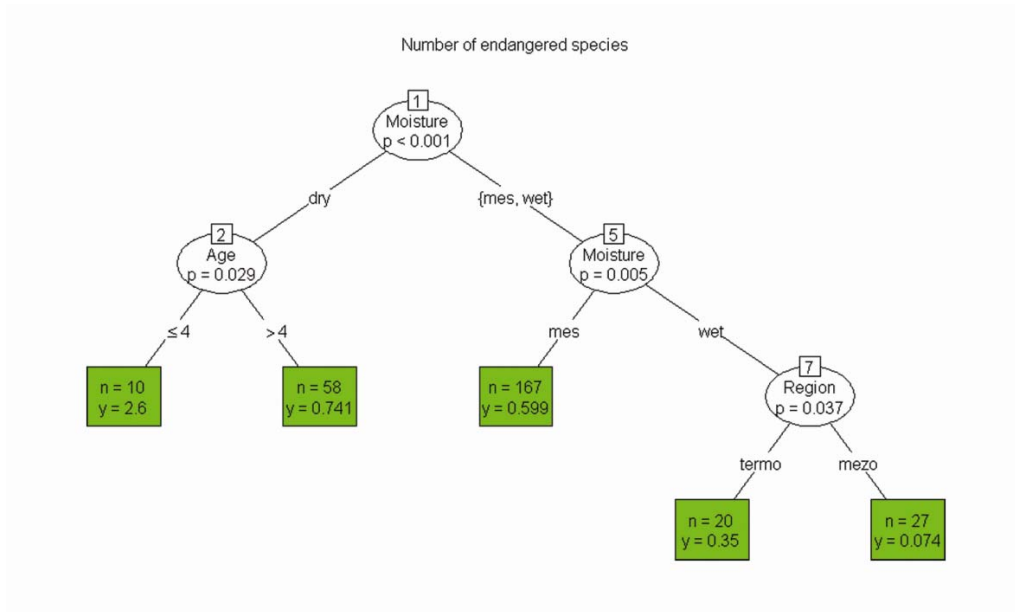
<i>Veronica officinalis</i>	3		Rest
<i>Veronica persica</i>	4	neo	Synanthropic
<i>Vicia angustifolia</i>	39	arch	Rest
<i>Vicia cracca</i> s.s.	20		Rest
<i>Vicia hirsuta</i>	63	arch	Synanthropic
<i>Vicia sepium</i>	7		Rest
<i>Vicia tenuifolia</i>	3		<i>Trifolio-Geranietea</i>
<i>Vicia tetrasperma</i>	22		Synanthropic
<i>Viola arvensis</i>	31		Synanthropic
<i>Viola hirta</i>	36		<i>Trifolio-Geranietea</i>
<i>Viola reichenbachiana</i>	4		<i>Querco-Fagetea</i>

Electronic Appendices 2-8 Conditional inference trees testing the effect of phytogeographic region (thermophyticum, mezophyticum), soil substratum (basic, acidic), soil moisture (wet, mezic, dry), successional age, and altitude on the total relevé species richness (S3) and those of the individual species categories (S4-6). Significant predictors are shown in oval windows, while the number of relevés in each group (n) and their mean species richness (y) in green boxes.

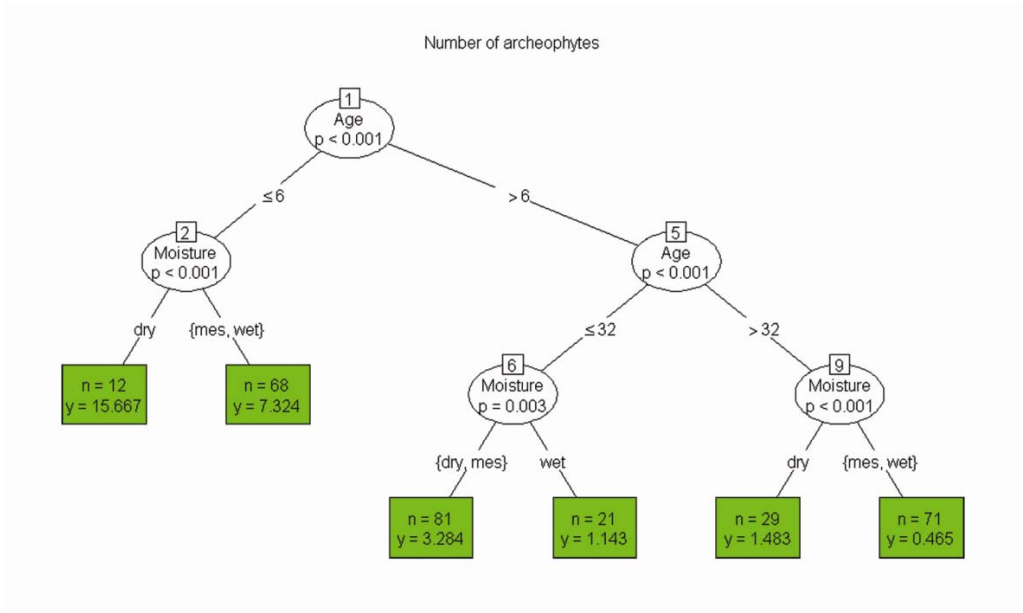
Electronic Appendix 2.



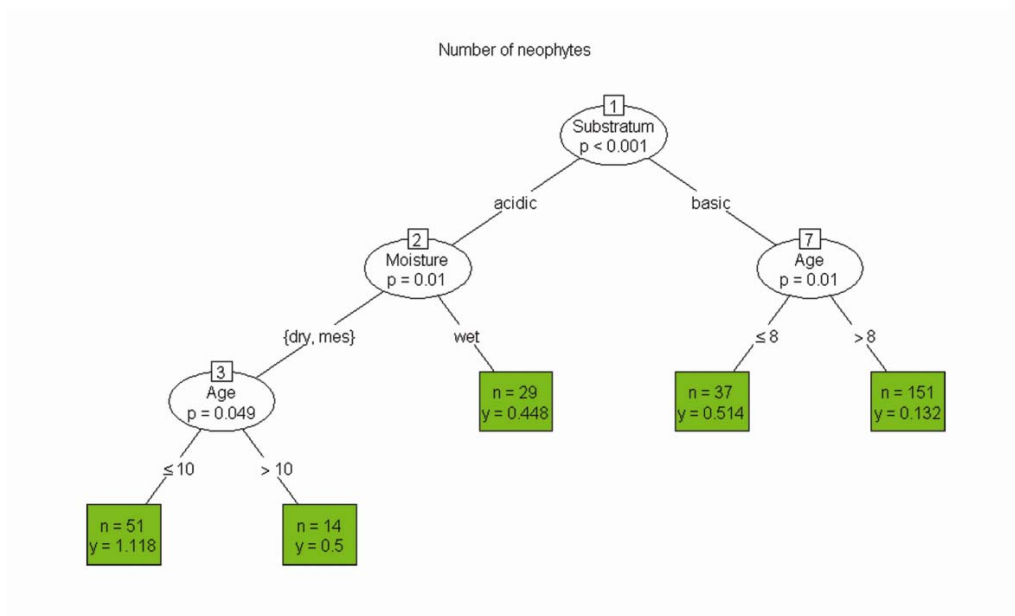
Electronic Appendix 3



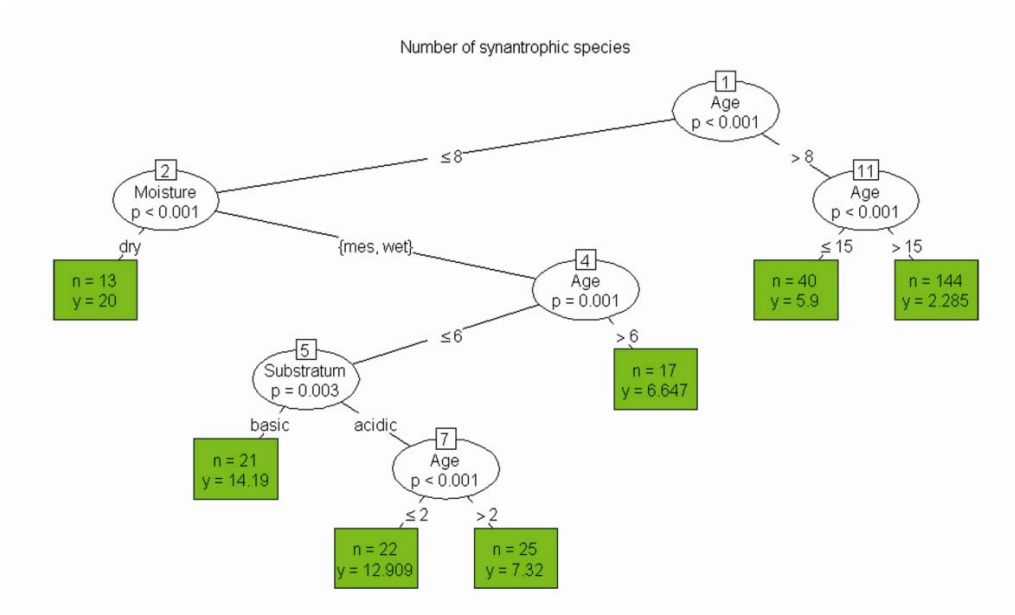
Electronic Appendix 4



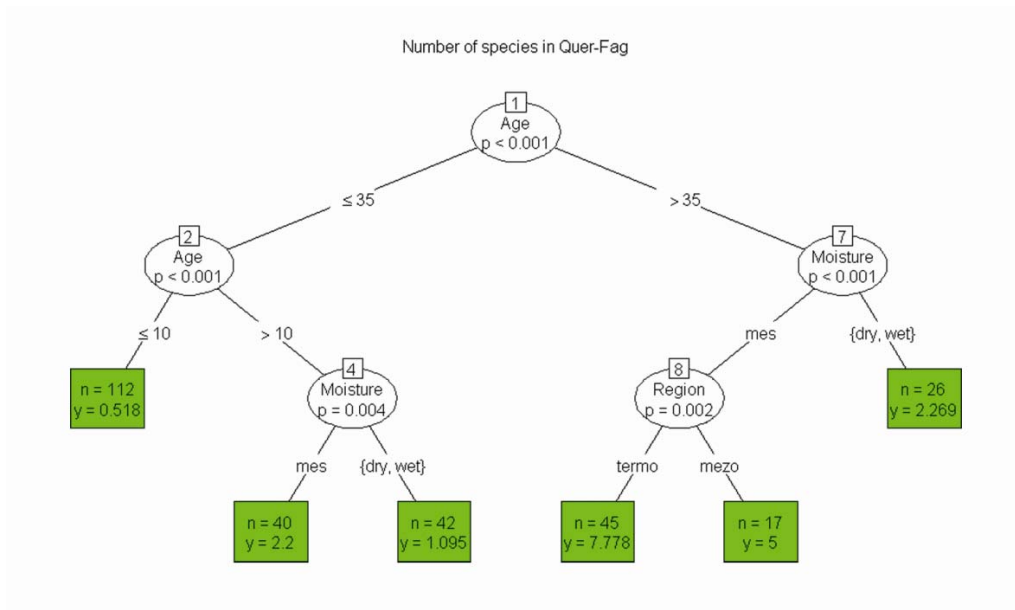
Electronic Appendix 5



Electronic Appendix 6



Electronic Appendix 7



Electronix Appendix 8

