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### *Phytosociological studies of relict woodlands in the North East of England*

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## (Fragmentary Communities of 5 Vegetation Types)

	B	B	B	B	B	B	B	B	B	B
Aufnahme No.	5	19	2	48	17	3	47	7	39	41
Species total	24	46	42	42	40	48	45	41	33	34
Aspect	NNE	NNE	N	N	N	NNE	N	NNE	-	-
Slope °	5-30	20-40	5	20-30	20-40	5	10	35	-	-
Quadrat size (m <sup>2</sup> )	2x $\frac{1}{2}$	1x5	2	2	4	2	2x4	2x4	10	5
Cover (Domin): Tree	.	6	.	.	9	.	.	6	.	.
Shrub	.	.	.	.	3	9	7	6	9	4
Herb	5	8	10	9	9	9	9	9	9	9
Bryop.	6	9	4	5	8	7	5	7	8	6

Alchemilla-Festuca rubra  
Mosaic

## Differential species groups

## (1) Montio-Cardaminetea sp.

Cratoneuron commutatum	2	2
Bryum pseudotriquetrum	2	1
Philonotis fontana	2	2
Brachythecium rivulare	2	3
Solenostoma cordifolium	3	.
Epilobium nerterioides	.	1

## (2) ? Potentillion (Prunetalia)

Potentilla fruticosa

9 7

## (3) Prunetalia

Rosa sherardii  
Betula pubescens6  
6

## (4) Juniperus communis

9 9

(4a) Galium saxatile  
Plagiothecium denticulatum  
Pteridium aquilinum  
Luzula pilosa5 5  
4 2  
2 2  
2 1

## (4b) Mercurialis perennis

Rubus idaeus  
Urtica dioica  
Stellaria alsine  
Cardamine flexuosa3 3  
4 3  
3 3  
2 3  
2 2Continental Molinietales-Arrhenatheretalia  
and Molinio-Arrhenatheretea character species

## (M), (A) &amp; No Symbol

Ranunculus repens	1	1	3	2	5	3	2	2	1
Festuca rubra	2	5	5	4	5	4	5	2	.
Prunella vulgaris	3	6	2	3	4	1	3	1	.
Alchemilla glabra (A)	3	2	1	3	2	1	1	.	.
Geum rivale (M)	1	1	4	3	4	2	2	.	.
Succisa pratensis (M)	1	.	1	3	3	1	4	1	.
Plantago lanceolata	1	1	4	3	2	2	4	.	.
Holcus lanatus	.	.	4	3	4	4	4	5	3
Deschampsia cespitosa	.	2	3	1	3	3	2	1	.
Cirsium palustre (M)	1	.	.	.	3	1	.	2	1
Taraxacum officinale (A)	.	1	1	1	.	.	3	1	.
Briza media	.	2	1	4	.	3	.	1	.
Leontodon hispidus	.	.	1	4	.	1	4	3	.
Centaurea nigra	.	.	4	3	3	3	4	.	.
Senecio jacobaea (A)	.	1	1	1	.	.	1	.	.
Cerastium fontanum	1	.	2	.	1	.	2	.	.
Trifolium pratense	.	.	1	2	.	1	3	.	.
Ranunculus acris	.	1	.	1	2	.	1	.	.
Angelica sylvestris (M)	.	.	.	.	1	1	.	1	.
Achillea millefolium (A)	.	.	.	3	.	2	3	.	.
Dactylis glomerata (A)	.	.	4	.	5	3	.	.	.
Bellis perennis (A)	.	2	.	1	.	.	.	.	.

## Other species

Viola riviniana	1	1	1	1	3	2	1	.	1	1
Lophocolea bidentata	.	1	2	1	2	3	.	4	5	4
Rhytidiadelphus squarrosus	.	.	4	4	4	4	1	4	5	6
Anthoxanthum odoratum	.	3	3	3	.	.	4	5	4	3
Deschampsia flexuosa	.	4	4	2	.	.	2	2	3	3
Oxalis acetosella	.	.	.	1	3	1	3	1	6	4
Mnium punctatum	1	.	1	1	3	4	2	3	.	.
Agrostis tenuis	.	.	5	.	4	4	.	3	4	4
Plagiochila asplenoides	.	3	.	1	.	4	.	3	4	3
Mnium undulatum	.	.	3	2	5	2	1	1	.	.
Cirriphyllum piliferum	.	.	2	2	.	1	1	.	3	3
Parnassia palustris	1	1	1	.	1	1	1	.	.	.
Acrocladium cuspidatum	4	5	.	3	3	.	4	5	.	.
Potentilla erecta	.	.	1	.	.	1	.	2	1	1
Holcus mollis	.	.	3	2	5	.	.	.	5	7
Scapania undulata	2	3	.	2	.	1	3	.	.	.
Agrostis canina ssp. montana	.	.	3	.	.	.	.	2	3	3
Atrichum undulatum	.	.	1	1	4	1	.	.	.	.
Agrostis stolonifera	2	.	3	.	5	.	.	4	.	.
Mnium longirostrum	.	.	2	.	.	.	1	.	2	1
Helictotrichon pratense	.	3	.	7	.	.	5	3	.	.
Veronica chamaedrys	.	.	1	.	.	.	.	.	2	2
Thuidium tamariscinum	.	.	.	.	2	4	.	3	.	.
Eurhynchium praelongum	.	.	.	.	.	.	.	3	5	5
Dichodontium pellucidum	.	6	.	.	.	3	4	.	.	.
Tussilago farfara	3	3	.	.	.	6	.	.	.	.
Lotus corniculatus	.	.	1	3	.	.	3	.	.	.
Athyrium filix-femina	.	.	.	.	4	1	.	.	2	4
Mnium hornum	.	.	.	.	4	.	.	.	5	5
Dryopteris dilatata	.	.	1	.	.	.	.	.	1	3
Drepanocladus uncinatus	.	.	.	3	.	3	1	.	.	.

Also: (5) Drepanocladus fluitans 2; Rhacomitrium aciculare 2; Carex demissa 2; Juncus articulatus 3. (19) Campanula rotundifolia 1; Luzula sylvatica 4; Preissia quadrata 4; Rhacomitrium aciculare 3; R. heterostichum 2; Solenostoma triste 2; Fissidens taxifolius 4; Amphidium mougeotii 4; Conocephallum conicum 4; Pellia epiphylla 4; Veronica officinalis 1; Epilobium angustifolium 1; Solidago virgaurea 2; Mimulus ? luteus 1; Distichium capillaceum 3; Fontinalis antipyretica 2; Leiocolea muelleri 1. (2) Galium verum 1; Heracleum sphondylium 1; Digitalis purpurea 1; Campanula rotundifolia 3; Pleurozium schreberi 1. (48) Thymus drucei 1; Conopodium majus 2; Galium aparine 3; Selaginella selaginoides 2; Breutelia chrysocoma 4; Hylacomium splendens 1. (17) Anthriscus sylvestris 1; Cardamine pratensis 1; Equisetum arvense 2; Cynosurus cristatus 3; Carex flacca 3; Festuca vivipara 2; Dryopteris pseudomas 2; Dryopteris filix-mas X ? pseudomas 2; Climacium dendroides 5. (3) Cephalozia bicuspidata 1; Endymion nonscriptus 1; Potentilla sterilis 1; Filipendula ulmaria 3; Lysimachia nemorum 2; Calypogeia fissa 2; Rhytidiadelphus triquetrus 4; Fissidens adianthoides 1; Hypnum cupressiforme 4; Luzula sylvatica 1; Rhytidiadelphus loreus 3; Hylacomium splendens 4; Pleurozium schreberi 3. (47) Plantago maritima 2; Ctenidium molluscum 2; Rhodobryum roseum 1; Rhytidiadelphus loreus 2; Fissidens adianthoides 2; Rhytidiadelphus triquetrus 1; Selaginella selaginoides 2; Carex flacca 2; Preissia quadrata 1; Lophozia ventricosa 3. (7) Fragaria vesca 3; Geranium robertianum 1; Dryopteris filix-mas 1; Luzula multiflora 1; Hypnum cupressiforme 1; Breutelia chrysocoma 3; Juncus articulatus 2; J. effusus 1; Carex flacca 3; C. demissa 3; Festuca vivipara 2; Climacium dendroides 1. (39) Plagiothecium succulentum 2. (41) Dicranum scoparium 3; D. majus 2; Dryopteris filix-mas 2.

	P	P	P	P	P	M	M	M	P	P	P	M	M
Aufnahme No.	43	44	28	29	30	18	23	47	46	47	21	14	16
Species total	22	24	32	27	24	23	18	49	52	37	38	17	19
Aspect	NE	NE	NE	NE	NE	NE	W	N	NNW	NW	NW	N	NNE
Slope °	30	50	10- 30	40- 60	40	60	10- 30	60	40	70	80	45	30- 70
Quadrat size (m <sup>2</sup> )	10	10	1	2	2	5	2	5	4	2	2	1	1
Cover (Domin): Tree	9	7	7	5	.	5	4	4	.	.	4	.	.
Shrub	3	.	.	.	.	.	.	4	4	8	3	6	8
Herb	8	9	8	9	9	10	9	10	9	8	9	7	7
Bryop.	8	8	9	9	8	6	3	8	9	9	7	9	7

Differential speciesSorbus-Dryopteris nodum

Sorbus aucuparia	8 <sup>k</sup>	4 <sup>k</sup>	7	5	(+)	k	7	1	4	3	k	.	.
Dryopteris filix-mas	8	7	5	9	8	.	.	4	.	.	2	.	.
Dryopteris ? filix-mas x pseudomas	.	.	2	.	.	.	.	4	.	.	.	.	.
D. pseudomas	.	.	.	.	.	8	9	4	.	.	.	.	.
D. dilatata	2	4	3	2	(+)	1	.	1	.	.	.	.	.

Differentials Corylus-Thelypteris nodum& species poor Corylus scrub

Thelypteris phegopteris	.	.	.	.	.	.	.	.	7	8	8	.	.
Dicranum majus	.	.	.	.	.	.	.	4	7	6	3	.	.
Corylus avellana	3	k	.	.	.	.	.	.	4	8	3 <sup>2k</sup>	6	9

Other species

Oxalis acetosella	4	5	1	6	6	3	2	5	3	3	4	5	4
Agrostis tenuis	3	1	4	5	3	3	.	3	5	.	3	3	3
Holcus mollis	2	4	4	5	4	.	.	3	4	.	3	3	3
Deschampsia flexuosa	3	4	.	.	.	3	2	4	7	6	3	.	1
Mnium hornum	.	.	4	.	3	5	1	4	.	4	3	6	6
Athyrium filix-femina	.	4	.	.	.	1	3	8	3	2	4	3	5
Lophocolea bidentata	.	.	2	2	3	.	.	4	4	4	1	.	2
Plagiochila asplenioides	.	.	4	4	3	.	.	3	4	4	1	.	.
Plagiothecium denticulatum	.	.	2	3	4	.	.	3	2	.	.	2	3
Viola riviniana	1	.	.	.	.	.	1	3	1	1	.	4	2
Holcus lanatus	2	.	.	3	3	.	.	.	2	3	.	2	1
Teucrium scorodonia	.	4	.	.	.	3	1	3	2	1	3	.	.
Digitalis purpurea	.	4	.	1	1	2	.	.	.	.	.	5	5
Diplophyllum albicans	.	.	4	.	.	2	.	4	.	3	4	2	.
Calypogeia fissa	.	.	.	.	.	.	.	3	3	4	3	2	1
Thuidium tamariscinum	.	.	1	.	.	.	.	5	5	5	1	.	.
Hypnum cupressiforme	.	.	.	.	.	3	2	4	2	.	1	.	.
Pleurozium schreberi	.	.	.	.	.	3	1	4	5	3	.	.	.
Mnium longirostrum	.	.	4	2	4	.	.	3	1	.	.	.	.
Eurhynchium praelongum	.	.	3	3	4	.	.	.	1	3	.	.	.
Geranium sylvaticum	.	.	3	1	.	.	.	.	1	1	1	.	.
Anthoxanthum odoratum	.	3	.	.	.	.	1	4	3	.	.	.	3
Arrhenatherum elatius	1	.	.	3	.	.	.	1	2	4	.	.	.
Stellaria holostea	1	.	2	2	2	.	.	1	.	.	.	.	.
Agrostis stolonifera	.	2	.	.	3	.	.	.	3	.	.	1	1
Galium odoratum	.	.	4	3	4	.	.	.	2	2	.	.	.
Polytrichum formosum	.	.	.	.	.	3	.	.	2	2	1	.	.
Mnium undulatum	.	.	6	6	5	.	.	.	1	.	.	.	.
Rhytidiadelphus squarrosus	.	.	1	.	.	.	.	3	3	3	.	.	.
Betula pubescens	4	5	.	.	.	.	.	.	4	.	4	.	.
Geranium robertianum	.	3	.	2	3	.	1	.	.	.	.	.	.
Lonicera periclymenum	2	3	1	1	.	.	.	.	.	.	.	.	.
Rubus idaeus	1	1	.	1	.	.	.	.	.	.	.	.	.
Agrostis canina ssp. montana	.	3	.	1	5	.	.	4	.	.	.	.	.
Gymnocarpium dryopteris	3	2	.	.	.	.	.	.	.	.	2	.	.
Pteridium aquilinum	.	.	.	.	.	5	.	.	.	1	(+)	.	.
Endymion nonscriptus	.	.	.	.	.	.	2	2	.	.	1	.	.
Succisa pratensis	.	.	.	.	.	.	.	2	2	.	1	.	.
Urtica dioica	.	.	.	1	3	1	.	.	.	.	.	.	.
Mercurialis perennis	.	.	5	3	3	.	.	.	.	.	.	.	.
Luzula pilosa	2	.	.	.	.	.	.	.	1	1	.	.	.
Plagiothecium undulatum	.	.	2	1	.	.	.	.	2	.	.	.	.
Cephalozia bicuspidata	.	.	.	.	.	.	.	.	3	2	1	.	.
Dicranum scoparium	.	.	.	.	.	.	.	.	2	.	2	.	.
Hylocomium splendens	.	.	.	.	.	.	.	2	5	3	.	.	.
Atrichum undulatum	.	.	.	.	.	.	.	.	.	.	3	4	2
Rhytidiadelphus loreus	.	.	.	.	.	.	.	3	3	2	.	.	.
Pseudoscleropodium purum	.	.	.	.	.	.	1	4	1	.	.	.	.
Isoetes myosuroides	.	.	4	2	2	.	.	.	.	.	.	.	.
Dactylis glomerata	1	1	.	.	.	.	.	.	.	.	.	.	.
Rhytidiadelphus triquetrus	.	.	.	.	.	.	.	1	4	.	1	.	.

Also: (P 43) *Primula vulgaris* 1; *Rubus caesius* 1; *Fraxinus excelsior* 5<sup>2k</sup>; *Ranunculus ficaria* 2. (P 44) *Cardamine flexuosa* 2; *Ranunculus acris* 1. (P 28) *Mnium punctatum* 4; *Barbilophozia floerkei* 1; *Bartramia pomiformis* 3; *Dicranella heteromalla* 1; *Lophocolea cuspidata* 1; *Scapania gracilis* 1; *Marsipella emarginata* 1; *Eurhynchium striatum* 2. (P 29) *Lophocolea cuspidata* 1. (P 30) *Eurhynchium striatum* 4. (M 18) *Festuca rubra* 1; *Polypodium vulgare* 1; *Blechnum spicant* 1; *Barbilophozia floerkei* 3; *B. attenuata* 2; *Festuca ovina* ssp. *tenuifolia* 1; *Polytrichum commune* 1. (M 23) *Crepis paludosa* 1; *Veronica officinalis* 1; *Ranunculus repens* 1; *Zerna ramosa* 1. (M 47) *Deschampsia cespitosa* 2; *Ulmus glabra* 4; *Festuca rubra* 2; *Rosa sherardii* k; *Angelica sylvestris* 1; *Carex pallescens* 1; *Solidago virgaurea* 1; *Centaurea nigra* 1; *Galium saxatile* 1; *Primula vulgaris* 3; *Hypericum pulchrum* 1; *Polytrichum commune* 3. (P 46) *Centaurea nigra* 1; *Lathyrus montanus* 1; *Potentilla erecta* 2; *Galium saxatile* 2; *Rubus saxatilis* 2; *Melampyrum pratense* 1; *Hieracium perpropinquum* 1; *Filipendula ulmaria* 1; *Mnium punctatum* 1; *Cirriphyllum piliferum* 2. (P 47) *Rubus saxatilis* 3; *Geum urbanum* 2; *Fraxinus excelsior* k; *Potentilla sterilis* 1; *Filipendula ulmaria* 1; *Hieracium perpropinquum* 3. (P 21) *Melampyrum pratense* 2; *Hypericum pulchrum* 1; *Vaccinium myrtillus* 3; *Tritomania quinqueidentata* 2; *Tetraphis pellucida* 1; *Pohlia nutans* 3; *Bartramia pomiformis* 4; *Dicranella heteromalla* 1; *Campanula rotundifolia* 1. (M 14) *Conopodium majus* 3; *Tussilago farfara* 7; *Polytrichum aloides* 3; *Pellia epiphylla* 5. (M 16) *Conopodium majus* 2; *Festuca ovina* ssp. *tenuifolia* 1; *Pellia epiphylla* 2.

TABLE VI/11

ORDER LEPRARIETALIA

ALL. CALICION HYPERELLI

	B	B	B	B	B	B	B	M	J	P	P	P	B	M	P	B	M	J	B	M	M	P	P	M	J	J
Aufnahme No.	46	48	45	49	50	51	52	40	25	43	47	54	34	55	8	13	65	44	8	8	59	85	39	98	30	16
Aspect	S	all	SW	N	N	NNW	SW	NE	SSE	S	ENE	ENE	NW	W	SW	NNE	E	NE	NE	NE	N	E	E	NW	NW	NW
Slope °	80	0-10	90	100	130	110	110	110	140	110	100	130	120	110	100	110	100	60	140	130	100	90	50	120	180	170
Area (sq.dm.)	15	30	20	12	4	10	20	9	3	24	24	10	4	60	4	4	3	0.1	8	15	80	12	10	20	30	2
Height above ground (dm.)	5-10	20	2-7	5-9	12-16	16-20	20	0-3	11	1-6	4-12	15	4	0-10	0-14	0-2	0-5	12	0-4	0-3	0-10	1-3	3-12	0-5	12	1
Light	ms	ms	s	ss	ss	ss	ss	ss	s	ms	ms	ms	s	ss	ml	ms	s	l	s	s	ml	ml	ms	ss	ss	ss
Exposure	mp	pp	mp	pp	pp	pp	pp	pp	mp	p	mp	mp	pp	pp	p	pp	p	e	pp	p	mp	mp	mp	pp	pp	pp
Humidity	md	md	md	md	md	md	md	md	md	md	d	d	md	m	md	d	md	d	md	md	md	d	d	md	md	d
Tree species	Tb	Tb	Tb	Tb	Tb	Tb	Tb	Bp	Jc	Bp	Bp	Sa	Jc	Fe	Sa	Bp	Ca	Jc	Bp	Fe	Fe	Bp	Bp	Ug	Pp	Jc
Height	60	60	60	60	60	60	60	80	23	90	100	70	20	120	70	70	40	27	70	70	75	90	90	100	70	18
Circ. at 1m.	21	21	21	21	21	21	21	12	7	18	17	9	5	17	16	7	1.5	7	7	19	22	30	18	18	12	5
Cover % : total	90	100	90	100	80	90	95	80	65	85	90	50	75	100	90	60	85	60	65	90	60	75	85	70	90	65
Bryops.	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.	.	5	.	.	.	.	.	.	5	.	.
Lichens	3	2	30	30	70	85	85	80	65	85	90	50	75	95	90	60	80	60	65	90	60	75	85	65	90	65
Species total	2	2	3	3	2	2	2	3	2	4	7	5	6	6	6	4	3	4	7	4	4	4	6	4	1	1
Pleurococcus sp.	9	9	6	7	5	4	4	2	3	3	4											3				
Lecanora conizaeoides										7	8	5		5	7	5	3	6	6					2		
Ass. Xylographetum parallelae																										
Xylographa abietina																										5
Ass. Calicietum hyperellae																										
Coniocybe furfuracea																				2	4	4				
Calicium viride																					5	6				
Ass. Chaenothecetum melanophaeae																										
Chaenotheca ferruginea																								4	6	
Lecidea scalaris																								1		
O. & All. character species																										
Lepraria incana	3	.	6	6	8	9	9	9	8	7	4	6	8	8	4	8	8		6	8	6	8	6	8	9	8
Other species																										
Parmelia physodes	.	2	.	2	.	.	.	.	.	3	4	1	2	2	3	.	.	3	4	.	.	.	4	.	.	.
Cetraria glauca	.	.	.	.	.	.	.	.	.	.	1	3	3	.	3	.	.	.	1	.	.	.	2	.	.	.
Cladonia coniocraea	.	.	.	.	.	.	.	.	.	.	.	.	3	.	3	2	.	5	1	2	.	.	1	2	.	.
C. macilenta	.	.	.	.	.	.	.	.	.	.	.	.	1	2	.	2	.	.	1	.	.	.	.	.	.	.
Parmelia saxatilis	.	.	1	.	.	.	.	.	.	.	.	1	.	.	4	.	.	.	.	.	.	.	.	.	.	.

Also: (P 47) Pertusaria amara 2; Ochrolechia turneri 2. (B 34) Cladonia ochrochlora 1. (M 65) Hypnum cupressiforme 3.  
(P 85) Lecanora expallens 1; (M 98) Hypnum cupressiforme 4; Frullania dilatata 1. (M 55) Lecanora expallens 5;  
Lecanora chlorona 4; Hypnum cupressiforme 5.

TABLE VI/12

## ASS. PSORETUM OSTREATAE

	P	P	P	P	P	P	P	B	B
Aufnahme No.	2	80	18	81	82	83	84	41	35
Aspect	S	N	SE	E	E	NE	NE	SE	N
Slope °	95	85	130	110	110	95	85	125	110
Area (sq.dm.)	10	8	20	25	10	15	16	10	12
Height above ground (dm.)	10- 15	9- 15	5- 11	4- 12	2-4	4-8	10- 14	8- 11	7- 11
Light	ms	l	ms	ms	ms	ml	ml	ml	ml
Exposure	p	e	me	mp	mp	me	e	p	mp
Humidity	d	d	d	d	d	d	dd	d	dd
Tree species	Bp	Bp	Bp	Bp	Bp	Sa	Bp	Bp	Bp
Height	45	45	90	90	90	100	75	70	70
Circ. at 1m.	10	10	20	23	20	16	12	15	15
Cover % total	80	75	75	85	70	60	70	90	60
Bryops.	.	.	.	5	.	5	5	5	.
Lichens	80	75	75	80	70	55	65	85	60
Species total	5	6	5	6	5	7	9	6	7

Character species of the  
Alliance & Association

<i>Lecidea scalaris</i>	6	6	6	7	7	5	5	8	5
<i>Lecanora conizaeoides</i>	7	6	5	6	5	5	4	4	4

Differential species of the  
Association

<i>Cladonia coniocraea</i>	.	4	.	5	3	3	5	.	.
<i>C. macilenta</i>	.	4	.	2	.	4	4	.	.

Other species

<i>Parmelia physodes</i>	3	3	3	.	4	2	4	3	3
<i>Cetraria glauca</i>	3	3	.	.	.	2	4	1	1
<i>Hypnum cupressiforme</i>	.	.	.	4	.	4	4	4	.
<i>Parmelia saxatilis</i>	1	.	.	.	3	.	.	.	.
<i>Lepraria incana</i>	.	.	4	.	.	.	.	.	4

Also: (P 18) *Ochnolechia androgyna* 3. (P 81) *Ochnolechia turneri* 3. (P 84)  
*Cladonia chlorophaea* 1; *Dicranum scoparium* 3. (B 41) *Dicranum scoparium* 1.  
(B 35) *Lecidea granulosa* 4; *Porina olivacea* 1.

TABLE VI/13

## ASS. LECANORETUM PITYREAE

	P	J	B	B	B	B	P	P	M	M	M	M	M	M	P	P	J	J	J	J	B	P
Aufnahme No.	57	6	43	31	4	7	60	45	17	48	51	91	92	93	58	59	39	31	20	28	3	36
Aspect	all	all	all	all	SE	all	all	all	all	E	NE	E	all	all	all	all	W	all	ENE	N	S	SE
Slope °	5-30	all	all	all	85	all	all	all	10-80	110	45	90	all	all	all	all	85	all	80	100	80	90
Area (sq.dm.)	2	9	4	10	10	8	6	2	15	8	8	4	5	5	8	6	10	12	2	8	12	10
Height above ground (dm.)	30-40	15-18	35-45	15-20	40-50	40-50	100	30-36	20-30	18	20-25	6-10	18-24	18-24	120	110	2-6	15-30	13	3-5	32-36	12-18
Light	1	s	l	ml	ml	ml	l	l	ml	ml	l	s	ml	ml	l	l	ml	ml	s	s	ml	l
Exposure	me	p	e	e	mp	e	e	e	mp	me	me	p	me	me	e	e	e	me	mp	p	p	me
Humidity	dd	md	dd	dd	d	dd	dd	dd	d	d	d	d	dd	dd	dd	dd	md	d	m	md	dd	d
Tree species	Pp	Jc	Jc	Jc	Bp	Bp	Bp	Bp	Ag	Sa	Sa	Cm	Cm	Cm	Bp	Bp	Jc	Pp	Jc	Pp	Bp	Ag
Height	45	30	20	20	70	70	120	90	60	60	60	36	36	36	130	130	.	70	40	70	70	75
Circ. at 1m.	5	5	5	5	8	7	15	18	12	16	16	6	6	6	15	15	6	12	6	12	7	8
Cover % : Total	50	85	60	50	80	90	70	75	70	50	90	90	90	60	75	75	75	95	90	60	75	85
Bryops.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lichens	50	80	60	50	80	90	70	75	70	50	90	90	90	60	75	75	75	95	90	60	75	85
Species total	1	2	3	3	3	3	2	2	2	3	3	2	2	2	3	2	3	3	4	4	4	4
Pleurococcus sp.	.	4	3	4	2	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lecanora conizaeoides	7	9	8	7	9	9	8	8	8	7	9	6	8	7	8	8	5	9	9	4	6	7

All. Parmelion saxatilis character species

Parmelia physodes	.	.	4	2	1	2	2	3	.	3	2	6	5	4	2	3	6	5	3	3	6	6
P. saxatilis	.	.	.	.	.	.	.	.	.	1	1	.	.	.	.	.	3	4	6	4	4	3
Cetraria glauca	.	.	.	.	.	.	.	.	3	.	.	.	.	.	1	.	5	.	3	4	2	4

TABLE VI/15

## FED. CLADONION CONIOCRAEA

	P	P	P	P	M	M	M	J	J	J	J	J
Aufnahme No.	31	29	40	41	28	24	95	23	39	22	21	48
Aspect	SW	W	NE	E	W	N	-	SW	W	S	NW	N
Slope °	90	70	65	70	80	75	-	85	85	25	80	30
Area (sq.dm.)	12	20	9	9	10	20	10	4	10	4	2	4
Height above ground (dm.)	0-6	4-8	2-4	3-7	0-4	0-5	20	0-2	2-4	6	0-1	0-1
Light	ml	l	ml	ms	ml	ms	l	l	ml	l	s	ms
Exposure	e	me	me	mp	mp	mp	p	p	e	p	pp	p
Humidity	d	md	md	md	md	d	d	md	md	d	md	md
Tree species	Ag	Ag	Bp	Bp	Sa	Bp	Bp	Jc	Jc	Jc	Jc	Tb
Height	90	90	90	90	80	90	80	23	.	23	30	45
Circ. at 1m.	10	17	18	18	12	11	12	7	6	7	7	9
Cover % : total	100	75	90	90	80	85	100	60	60	80	40	75
Bryops.	5	5	.	.	.	20	20	.	.	.	.	.
Lichens	95	70	90	90	80	65	80	60	60	80	40	75
Species total	9	10	7	7	9	7	8	4	7	9	4	8

Fed. Cladonion character species

<i>Cladonia macilentata</i>	5	4	4	3	6	3	2	6	5	.	6	4
<i>C. coniocraea</i>	6	5	8	8	6	5	3	.	5	5	4	.
<i>C. ochrochlora</i>	.	3	3	4	3	2	3	.	.	.	3	.
<i>C. chlorophaea</i>	.	.	.	.	.	.	6	6	4	4	.	.
<i>C. squamosa</i>	.	.	.	.	.	.	.	5	4	5	.	4
<i>C. fimbriata</i>	.	.	.	.	.	.	.	4	4	.	.	.
<i>C. polydactyla</i>	.	.	.	.	2	6	.	.	.	.	.	.
<i>C. pyxidata</i>	.	.	.	.	.	.	2	.	.	.	.	.

Fed. Parmelion saxatilis character species

<i>Parmelia physodes</i>	5	4	4	3	4	.	.	.	.	4	.	6
<i>Cetraria glauca</i>	4	6	3	4	4	.	.	.	.	3	.	6
<i>Parmelia saxatilis</i>	5	4	.	3	3	.	.	.	.	4	.	4

Other species

<i>Hypnum cupressiforme</i>	4	4	.	.	.	5	.	.	4	5	.	.
<i>Lecanora conizaeoides</i>	.	.	4	4	3	4	.	.	.	.	.	5
<i>Ochrolechia androgyna</i>	3	2	.	.	4	4	.	.	.	.	.	.
<i>Lepraria incana</i>	.	.	1	.	.	.	.	.	.	.	4	1

Also: (P 31) *Orthodontium lineare* 4; *Ochrolechia turneri* 4. (P 29) *Dicranella heteromalla* 3; *Orthodontium lineare* 3. (J 22) *Dicranoweisia cirrata* 4; *Cephaloziella* sp. 2. (J 48) *Mycoblastus sanguinarius* 3. (J 39) *Lophozia ventricosa* 4. (M 95) *Metzgeria furcata* 5; *Pertusaria albescens* 7; *Buellia punctata* 1.

TABLE VI/16

## ARTHONIETALIA COMMUNITIES

	All. Lecanorion carpineae									All. Graphidion															
	M	M	M	M	M	P	M	M	M	P	P	P	P	P	P	M	M	M	P	B	P	M	M	M	M
Aufnahme No.	63	62	69	66	67	70	68	71	78	1	22	51	73	72	74	10	49	77	77	57	27	61	54	72	70
Aspect	NW	W	S	NW	N	SW	SW	W	NW	W	SE	NE	W	NW	E	SW	W	W	N	NE	W	SE	E	SW	N
Slope °	10	70-80	45	30-60	30-70	45	80	10-30	90-100	90	90	75	45	50	90	90	85	85	85	95	80	80	90	10-30	20
Area (sq.dm.)	3	3	4	4	8	30	8	2	4	20	16	20	4	4	20	70	40	21	10	12	14	150	40	2	3
Height above ground (dm.)	10-15	10-15	15-20	12-20	12-20	7-13	4-14	4-8	12-14	10-15	4-10	2-8	5-10	6-15	4-8	10-20	2-10	4-12	2-6	3-7	1-4	0-15	5-13	9-14	8-14
Light	ms	ms	ml	ml	ml	ms	ms	ml	ml	l	ml	l	ms	ml	s	l	ml	l	ms	ml	ml	l	s	l	l
Exposure	p	p	p	p	p	p	p	p	me	e	me	e	p	p	pp	e	mp	me	p	me	p	me	p	p	p
Humidity	d	d	d	d	d	d	d	d	d	d	d	dd	d	d	md	d	d	d	d	d	md	d	md	d	d
Tree species	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Fe	Bp	Sa	Bp	Ca	Ca	Bp	Fe	Sa	Fe	Sa	Ap	Ag	Fe	Fe	Ca	Ca
Height	40	40	40	40	40	40	40	40	70	90	100	100	36	60	120	70	60	70	70	70	90	75	120	40	40
Circ. at 1m.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	10	15	16	17	1.5	2.5	14	19	16	10	6	28	6	22	17	1.2	1.2
Cover % : total	50	90	95	85	85	85	80	60	95	95	95	50	100	95	95	95	95	95	90	90	100	95	90	90	60
Bryops.	.	.	.	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5	3	.	.
Lichens	50	90	95	85	85	85	80	60	95	95	95	50	100	95	95	95	95	95	90	90	100	90	90	90	60
Species total	5	6	9	9	10	10	7	6	9	7	11	7	7	6	2	7	7	7	6	4	6	9	7	7	7

## All. Graphidion

<i>Pertusaria amara</i>									2	3	6	4	3	.	.	4	2	6	6	.	.	.	.	.	.
<i>Ochrolechia androgyna</i>										4	6	6	5	6	8	6	.	.	.	4	.	.	.	.	.
<i>O. turneri</i>										.	3	.	.	.	.	.	.	.	.	9	9	.	.	.	.
<i>Pertusaria albescens</i>										.	.	.	.	.	.	.	.	.	.	.	.	6	7	3	3

## All. Lecanorion carpineae

<i>Lecanora chlarona</i>	4	3	6	3	4	6	3	3	6	.	.	.	.	1	.	.	.	.	.	.	.	3	.	.	3
<i>L. chlarotera</i>	1	.	2	.	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

## O. Arthonietalia character species

<i>Arthonia radiata</i>	.	7	.	5	5	4	4	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2
<i>Lecidea limitata</i>	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Parmelia glabrata</i>	5	6	5	5	6	5	5	4	7	.	.	.	.	.	.	3	3	5	.	.	.	3	3	3	4
<i>Pertusaria pertusa</i>	.	.	.	1	3	3	5	5	2	.	.	.	.	.	.	.	2	.	6	.	.	4	.	5	6

## All. Parmelion saxatilis character species

<i>Parmelia physodes</i>	4	5	6	4	3	4	2	5	.	6	5	.	6	5	.	2	4	4	3	.	3	.	3	4	2
<i>P. saxatilis</i>	.	.	1	4	4	4	2	6	4	4	1	.	4	4	.	5	7	4	2	.	1	6	3	7	.
<i>Cetraria glauca</i>	.	.	3	.	.	5	.	.	.	7	5	4	8	5	.	2	.	1	3	.	.	.	.	6	.
<i>Parmelia furfuracea</i>	.	.	.	.	.	3	.	.	.	2	3	1	2	.	.	.	.	.	.	.	.	.	.	.	.
<i>Lecanora conizaeoides</i>	4	3	5	6	5	3	4	3	.	5	3	4	4	5	7	.	2	.	.	.	5	.	5	3	3
<i>L. expallens</i>	.	2	.	.	.	.	.	.	5	.	.	.	.	.	.	.	.	3	6	.	.	5	.	.	.
<i>Parmelia sulcata</i>	.	.	2	2	2	.	.	.	.	.	.	.	.	.	.	3	.	3	.	.	.	.	.	.	.
<i>Evernia prunastri</i>	.	.	3	.	.	.	.	.	.	.	3	.	.	.	.	6	.	2	.	.	.	.	.	.	.
<i>Hypnum cupressiforme</i>	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4	3	.	.
<i>Ulota phyllantha</i>	.	.	.	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.

Also: (P 22) *Alectoria fuscescens* 2; *Usnea subfloridana* 3. (P 51) *Alectoria fuscescens* 3; *Cladonia macilenta* 3. (M 78) *Buellia punctata* 1. (B 57) *Mycoblastus sanguinarius* 4. (P 27) *Cladonia coniocraea* 3. (M 61) *Graphis elegans* 2; *Buellia punctata* 1. (M 54) *Lepraria incana* 5.



TABLE VI/17

## ASS. LECANORETUM CARPINEAE COMMUNITY

	M	P	M	P	P	M	M	M	P	P	M	P
Aufnahme No.	6	7	4	14	15	88	79	32	66	69	5	65
Aspect	all	S	E	NNW	SE	all	all	NE	NW	W	NE	E
Slope °	80- 100	90	80- 100	80	100	all	5- 60	90	85	90	70- 90	80- 90
Area (sq.dm.)	5.6	10	3.5	16	12	12	8	12	5	10	3.5	20
Height above ground (dm.)	10- 18	12- 20	10- 18	12- 18	10- 14	100- 120	18- 22	5-9	2- 12	5- 15	8- 15	5- 15
Light	ll	ml	l	ml	ml	ll	ll	l	ml	ml	l	ml
Exposure	e	me	e	mp	mp	ee	me	me	mp	mp	e	mp
Humidity	dd	d	dd	d	d	dd	dd	dd	dd	dd	dd	dd
Tree species	Fe	Sa	Fe	Sa	Sa	Bp	Fe	Sa	Ca	Ca	Fe	Ca
Height	90	70	90	60	60	120	60	25	40	40	90	40
Circ. at 1m.	10	16	10	17	17	10	20	8	1.5	1.5	10	1.5
Cover % : total	90	90	90	85	90	80	90	45	95	95	95	90
Bryops.	.	.	.	.	.	.	.	5	.	.	.	.
Lichens	90	90	90	85	90	80	90	40	95	95	95	90
Species total	3	5	5	6	5	3	5	4	6	5	5	5
<i>Lecanora chlarona</i>	4	3	5	2	.	2	4	5	5	6	4	5
<i>L. chlarotera</i>	.	.	2	4	3	.	.	.	.	1	.	.
<i>L. carpinea</i>	.	.	.	.	.	.	3	3	2	3	.	.
<i>Arthopyrenia punctiformis</i>	.	.	2	.	.	.	2	.	.	.	.	.
<i>Lecanora conizaecoides</i>	9	8	8	7	8	9	8	6	8	8	7	7
<i>Parmelia physodes</i>	4	4	.	5	5	3	4	.	4	.	6	3
<i>P. saxatilis</i>	.	3	4	4	3	.	.	.	.	.	4	.
<i>Cetraria glauca</i>	.	3	.	3	3	.	.	.	3	.	3	4

Also: (P 66) *Arthonia radiata* 1. (P 69) *Pertusaria albescens* 1. (P 65) *Arthonia radiata* 2. (M 32) *Hypnum cupressiforme* 3.

TABLE VI/18

## ASSOCIATION SCOPARIO-HYPNETUM FILIFORMIS

	B	B	B	B	P	M	B	M	J	M	M	P	B	P	B	B	B	M	B	B	J	P	B	M	M	J	B	M	B	J	J	M	M	M	P
Aufnahme No.	55	32	40	44	91	29	15	90	13	14	47	48	26	16	16	1	9	1	18	47	27	10	53	36	53	24	20	2	32	26	10	76	75	60	23
Aspect	SW	S	-	NW	-	W	NW	E	-	WSW	E	N	SSE	-	NNE	-	SSE	NNE	NNE	all	N	SSE	NE	N	SW	NNE	-	all	S	S	NNW	NW	W	W	SE
Slope °	50	15	0-5	10	0-5	0-10	70	90	-	100	0-30	30	50	-	25	-	30	85	15	0-80	100	80	45	1-10	85	130	-	-	15	70	10	85	30	90	40-80
Area (sq.dm.)	20	5	24	3	15	8	8	6	3	16	4	30	12	4	10	8	24	12	10	4	10	10	10	30	30	8	5	4	5	4	12	12	20	40	10
Height above ground (dm.)	3-6	4	30	20	3	15	0-2	3-6	1	1-4	15	0-5	5	12	5	5	10	0-6	10	4	0-3	1-3	1-2	10	5-10	1-4	12	7	4	7-9	2	0-4	1-3	2-10	1-3
Light	ml	s	ml	ml	ms	ms	ml	ms	ml	ms	ml	ml	s	ms	ms	s	ms	ms	ml	s	s	s	ms	s	ss	ms	s	ml	s	ml	s	l	l	ml	ss
Exposure	e	mp	mp	me	p	mp	mp	p	mp	mp	mp	mp	pp	p	pp	p	pp	me	p	p	p	mp	pp	pp	pp	pp	pp	me	mp	p	p	mp	mp	mp	pp
Humidity	md	m	md	d	md	md	md	md	m	mw	md	md	m	md	m	md	m	d	d	md	md	md	md	m	m	md	m	d	m	md	md	d	md	d	md
Tree species	Ap	Jc	Bp	Bp	Bp	Sa	Bp	Cm	Jc	Ag	Sa	Bp	Bp	Sa	Bp	Bp	Bp	Fe	Bp	Tb	Pp	Sa	Ap	Sa	Fe	Jc	Bp	Fe	Jc	Jc	Jc	Fe	Fe	Fe	Sa
Height	70	20	70	70	60	80	110	36	18	60	60	100	60	60	70	70	90	36	70	60	70	70	70	60	120	23	70	36	20	23	30	70	70	75	100
Circ. at 1m.	28	5	15	15	10	12	13	6	5	12	16	17	10	17	8	8	9	9	8	21	12	16	28	9	17	7	8	9	5	7	6	10	10	22	16
Cover % : total	95	95	95	70	85	95	90	100	70	80	95	100	90	100	90	85	70	80	80	100	85	95	95	95	95	80	95	80	95	100	95	95	95	75	90
Bryops.	90	90	85	60	75	90	85	80	60	40	85	65	80	95	85	80	60	60	75	80	60	85	90	90	85	75	95	80	90	95	95	95	95	75	85
Lichens	5	5	10	10	10	5	5	30	10	30	10	35	10	5	5	5	2	20	5	15	25	10	5	5	20	5	+	5	5	5	15	5	+	5	
Species total	6	6	7	9	5	6	6	9	6	7	4	10	9	3	3	7	5	6	5	7	4	6	4	5	5	2	5	2	6	4	2	3	2	2	4

Dicranoweisia facies

## Dicranoweisia cirrata

9 4

4 6 5 4 6 3 3 4

4

Characteristic combination of species

## Hypnum cupressiforme

9 9 8 7 7 7 6 9 8 8 . 6

8 8 8 7 5 8 7 8 6 8 9 9 8 9 9 9 8 9 9 9 9 9 9 8

## Dicranum scoparium

. . 5 4 . 7 6 3 . . 6

4 . . 5 . . 3 4 2 . 5 . 4 . . 4 . . 3 . . . . 4

## Cladonia coniocraea

. . 2 . 3 3 . 3 . 5 . 6

2 . . . . . . 4 4 . 4 . . . . 2 . . . . .

## C. macilenta

1 2 3 2 . 2 . . 4 . 4

2 . . . . . . 4 . . . . . . . 1 . . . . . 2

## Lepraria incana

. . . . . . 3 3 3 . .

. . . . . . 5 . 4 5 4 . . 5 4 . . . . .

Species of All. Parmelion saxatilis

## Parmelia physodes

3 2 3 3 3 2 3 2 3 3 4 3

3 . 3 1 1 . . 4 . . . . 1 4 . 2 . . . . 3

## Cetraria glauca

3 2 4 3 3 . 2 . . 3 . 4

4 4 . 1 . . . . . 3 3 . . . . 3 3 . . . . .

## Parmelia saxatilis

5 1 3 4 5 2 . 1 3 2 2 2

2 . . . . . . . . . . . . 2 . . . . . 3 . . . . .

## Lecanora conizaeoides

. . . . . . 1 . 2 4 1

. . . . . 2 . . . . . . . . . . . 1 . . . . .

## Mnium hornum

. . . . . . . . . . .

. . . . . 4 5 2 5 3 2 2 3 . . . . . . . . . .

Other species

## Cladonia chlorophaea

. 1 . . . . 2 . . 4

. . . . . 1 . . . . . 3 . . . . 1 . . . . .

## C. squamosa

. . . . . . . . . .

2 . . . 1 . . . . . . . . . . 2 . . . . .

## Pleurococcus sp.

. . . . . . 3 . . . .

. . . . . 5 . . 4 . . . . . . . . . . . . . . .

Also: (B 55) Lophocolea cuspidata 3. (B 15) Barbilophozia floerkei 5;  
 Barbilophozia attenuata 4. (B 44) Barbilophozia floerkei 3; B. attenuata 4;  
 Lepidozia reptans 4. (J 10) Campylopus flexuosus 4. (M 90) Parmelia  
 tubulosa 1. (M 76) Cladonia pyxidata 5. (M 75) Cladonia pyxidata 4.  
 (M 53) Bryum capillare 2. (M 36) Plagiochila asplenioides 3. (B 1)  
 Lophocolea cuspidata 4. (B 53) Cetraria chlorophylla 3.

TABLE VI/19

## MNIO HORNI-ISOETECIETUM.

	B	B	P	B	B	B	B	B	B	P	P	P	P	P	P	P	P	P	
Aufnahme No.	28	19	13	42	58	36	61	62	63	87	11	17	90	26	28	56	75	79	
Aspect	-	NE	NW	NE	-	-	N	SW	NE	SE	N	NE	SE	NNW	W	NW	SW	NNE	
Slope °	-	60	50	10- 20	-	-	20	15	10	30	75	0-5	5	25	30	15	25	40	
Area (sq.dm.)	6	25	30	6	4	9	10	20	4	10	20	20	10	60	40	20	10	6	
Height above ground (dm.)	3	-	0-4	-	0-1	4	-	0-1	0-2	0-3	0-4	0-3	0-1	0-8	0-6	0-3	1-3	0-3	
Light	ms	ms	ms	ms	s	ml	ms	ml	ms	s	s	ml	ss	ml	ml	ms	s	ss	
Exposure	pp	pp	p	pp	p	p	p	p	pp	p	p	p	pp	mp	me	p	pp	pp	
Humidity	m	m	md	m	m	m	md	md	md	md	m	md	md	md	md	m	md	m	
Tree species	Ca	Bp	Sa	Bp	Bp	Bp	Ap	Ap	Bp	Sa	Sa	Bp	Sa	Ag	Ag	Sa	Bp	Pp	
Height	50	70	60	70	70	80	70	70	70	70	70	90	100	90	90	70	120	70	
Circ. at lm.	7	8	17	15	8	10	28	28	7	16	16	30	16	8	17	9	14	9	
Cover % : total	80	70	70	70	75	85	80	80	85	85	75	90	75	80	85	70	90	100	
Bryops.	80	65	70	60	75	85	80	80	80	75	70	70	75	75	80	65	85	100	
Lichens	2	5	2	10	1	.	2	.	5	10	5	20	3	5	5	5	5	.	
Species total	8	4	7	7	4	2	3	2	5	6	8	4	6	6	6	7	8	3	
<u>Ass. character species</u>																			
Isothecium myosuroides	5	6	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Mnium hornum	7	6	6	7	8	9	7	8	7	8	7	8	8	8	8	8	7	6	
Dicranum scoparium	4	.	4	4	3	4	5	4	4	4	5	5	4	5	3	.	5	.	
<u>Companion species</u>																			
Parmelia physodes	2	.	1	3	1	.	2	.	.	2	2	2	3	3	3	3	2	.	
Hypnum cupressiforme	.	.	3	.	.	.	.	.	.	.	4	.	3	4	2	4	1	.	
Lophocolea cuspidata	3	.	4	.	4	.	.	.	.	4	4	.	.	.	.	5	3	.	
Cladonia coniocraea	.	.	2	1	.	.	.	.	3	.	4	5	.	3	3	.	.	.	
C. macilenta	.	2	.	2	.	.	.	.	2	.	.	.	.	3	2	.	.	.	
Lepraria incana	.	3	.	.	.	.	.	.	.	4	.	.	3	.	.	2	.	.	
Cladonia ochrochlora	.	.	.	.	.	.	.	.	.	4	1	.	.	.	.	.	.	.	
Barbilophozia attenuata	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	
Lophocolea heterophylla	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9	

Also: (B 28) Pohlia nutans 3; Diplophyllum albicans 4; Plagiothecium succulentum 4. (B 42) Cladonia squamosa 3; C. coccifera 1. (B 63) Dicranella heteromalla 5. (P 11) Plagiothecium curvifolium 2. (P 56) Plagiothecium curvifolium 2; Dicranella heteromalla 3. (P 90) Ochrolechia androgyna 3. (P 75) Ochrolechia androgyna 3; Barbilophozia floerkei 3.

TABLE VI/20

## LEUCOHRYO-TETRAPHIDETUM

	B	B	B	P	J	B	B	B	B	B	M	M	M	P	P
Aufnahme No.	29	37	25	42	35	22	23	64	10	27	37	38	39	5	19
Aspect	S	W	SE	N	NE	-	N	W	N	N	NNE	W	all	N	E
Slope °	0-20	60	80	70	60	-	60	70	100	110	100	100	10	70	80
Area (sq.dm.)	10	12	10	12	6	10	6	4	8	6	12	10	6	20	10
Height above ground (dm.)	1	4-8	5	0-3	0-1	5	4	0-4	0-4	4	0-4	0-4	3	4-7	1-3
Light	ms	s	s	ms	ms	s	ss	ss	s	ss	ms	ml	s	ml	ms
Exposure	pp	p	pp	p	p	pp	pp	pp	pp	pp	p	p	p	p	mp
Humidity	m	md	m	md	m	m	m	m	m	m	md	md	md	md	md
Tree species	Ca	Bp	Bp	Bp	Tb	Bp	Bp	Bp	Bp	Bp	Bp	Bp	Bp	Bp	Bp
Height	50	70	60	90	45	60	60	60	60	70	80	80	80	45	90
Circ. at 1m.	7	15	10	15	9	10	10	11	4	10	13	13	13	10	20
Cover % : total	95	85	100	90	95	85	90	65	85	85	75	60	80	95	65
Bryops.	95	80	65	85	90	75	60	65	60	40	75	60	75	90	60
Lichens	3	5	35	5	5	10	30	2	25	45	1	.	5	5	5
Species total	8	5	7	7	7	8	10	8	11	10	7	6	6	6	8

Local Ass. character species

<i>Tetraphis pellucida</i>	4	4	.	5	.	.	.	4	5	4	5	5	6	1	6
<i>Dicranum scoparium</i>	.	4	.	7	.	7	6	2	4	1	5	4	5	7	5
<i>Lophozia ventricosa</i>	2	.	4	.	3	4	5	7	4	4	2	4	2	.	6
<i>Lepidozia reptans</i>	5	6	5	.	5	.	.	.	.	2	.	.	4	.	.
<i>Cladonia macilenta</i>	2	.	4	2	3	4	3	.	4	5	.	.	2	4	2
<i>C. squamosa</i>	3	.	6	.	.	4	4	.	3	2	.	.	.	.	.

Companion species

<i>Mnium hornum</i>	7	5	.	6	5	4	4	4	.	.	5	4	5	7	.
<i>Lophocolea cuspidata</i>	2	.	4	.	.	4	4	3	.	.	.	5	.	.	2
<i>Lepraria incana</i>	.	4	.	3	2	.	.	.	5	6	1	.	3	2	3
<i>Barbilophozia floerkei</i>	1	1	.	.	.	.	3	5	4	4	.	.	.	.	.
<i>B. attenuata</i>	.	.	5	.	.	.	4	5	.	3	.	.	.	.	.
<i>Dicranella heteromalla</i>	.	.	.	.	7	.	.	.	5	.	2	3	.	.	.
<i>Cladonia coniocraea</i>	.	.	.	.	.	.	1	.	3	1	.	.	.	2	.
<i>Cetraria glauca</i>	.	.	.	.	.	.	5	2	.	.	.	.	.	.	2

Also: (B 25) *Diplophyllum albicans* 1. (P 42) *Cladonia ochrochlora* 2; *Plagiothecium curvifolium* 4. (J 35) *Campylopus flexuosus* 3. (B 22) *Diplophyllum albicans* 1; *Isothecium myosuroides* 4. (B 64) *Diplophyllum albicans* 1. (B 10) *Pohlia nutans* 4; *Plagiothecium succulentum* 2. (M 37) *Plagiothecium denticulatum* 3. (M 38) *Plagiothecium denticulatum* 4. (P 19) *Cladonia ochrochlora* 1.

TABLE VI/21

## HOMALION COMMUNITIES

	M	M	M	M	M	M	M	M
Aufnahme No.	42	44	96	73	53	52	89	35
Aspect	SSE	N	W	NE	SW	E	NW	N
Slope °	80	80	85	20- 80	85	80	10	5
Area (sq.dm.)	40	30	40	40	30	40	20	8
Height above ground (dm.)	13- 18	4-8	3- 10	0-6	1-4	1-5	0-4	4
Light	l	ml	s	s	s	s	s	s
Exposure	wp	p	pp	pp	pp	pp	pp	pp
Humidity	md	md	m	md	m	m	md	md
Tree species	Ug	Ug	Ug	Ug	Fe	Fe	Fe	Sa
Height	100	100	100	100	120	120	60	60
Circ. at 1m.	22	22	19	18	17	17	15	9
Cover % : total	100	100	100	80	100	100	90	80
Bryops.	100	100	95	75	95	90	85	80
Lichens	.	5	5	5	5	10	5	.
Species total	7	10	16	13	7	12	9	8
<i>Isothecium myurum</i>	.	.	.	.	7	5	6	.
<i>Hypnum cupressiforme</i>	4	6	6	4	6	8	5	3
<i>Camptothecium sericeum</i>	8	5	6	.	.	1	3	.
<i>Bryum capillare</i>	7	4	4	5	5	4	.	.
<i>Plagiothecium succulentum</i>	.	4	.	4	3	.	4	.
<i>Tortula ruralis</i>	3	3	3	.	.	.	.	.
<i>Frullania dilatata</i>	3	4	2	.	.	.	.	.
<i>Peltigera praetextata</i>	.	4	.	.	.	.	4	.
<i>Brachythecium rutabulum</i>	.	6	.	2	.	.	.	.
<i>B. velutinum</i>	.	.	.	6	.	.	.	.
<i>Porella platyphylla</i>	.	5	2	3	.	.	2	.
<i>Omalia trichomanoides</i>	.	.	4	5	.	.	3	.
<i>Plagiochila asplenioides</i>	.	.	.	.	4	1	2	.
<i>Lepraria incana</i>	.	.	.	4	4	3	.	.
<i>Isothecium myosuroides</i>	.	.	6	.	.	.	6	.
<i>Mnium hornum</i>	.	.	3	.	.	.	.	4
<i>Metzgeria furcata</i>	2	.	.	.	.	.	.	4
<i>Lejeunea cavifolia</i>	.	.	.	3	.	.	.	4
<i>Orthotrichum affine</i>	3	.	.	.	.	2	.	.

Also: (M 44) *Mnium stellare* 5. (M 73) *Eurhynchium praelongum* 3; *Climacium dendroides* 2; *Lecidea lucida* 4; *Pohlia cruda* 1. (M 53) *Radula complanata* 3. (M 52) *Lecanora expallens* 1; *Eurhynchium striatum* 2; *Cladonia coniocraea* 2; *C. ochrochlora* 4; *C. chlorophaea* 4. (M 96) *Pertusaria pertusa* 1; *P. albescens* 2; *Porina chlorotica* var. *carpinea* 1; *Mnium undulatum* 1; *M. punctatum* 1; *Peltigera canina* 4; *Bacidia rubella* 2. (M 35) *Thamnum alopecurum* 6; *Eurhynchium striatum* 5; *Trichostomum tenuirostre* 4; *Plagiochila asplenioides* 4.

Also: (J 41) *Epilobium montanum* 1; *Stellaria alsine* 1. (J 42) *Arrhenatherum elatius* 1; (J 43) *Cirriphyllum piliferum* 1; *Bryum capillare* 1; *Ptilidium ciliare* 1; *Lepidozia reptans* 2; *Isopterygium elegans* 1; *Plagiothecium curvifolium* 1; *Peltigera polydactyla* +. (J 44) *Isothecium myosuroides* 3r; *Cephaloziella* sp. 1; *Marsupella emarginata* 1r. (J 45) *Fagus sylvatica* (+); *Rumex acetosella* 3; *Isothecium myosuroides* 1r; *Bryum capillare* 2; *Ptilidium ciliare* 3; *Barbilophozia barbata* 1. (J 46) *Nardia scalaris* 3. (J 47) *Lepidozia reptans* 1; *Cephaloziella* sp. 1. (J 48) *Eurhynchium confertum* 2. (J 49) *Epilobium montanum* 1; *Isothecium myosuroides* 3r; *Plagiothecium curvifolium* 1. (J 50) *Epilobium angustifolium* 1. (J 52) *Anemone nemorosa* (+); *Isopterygium elegans* 3. (J 53) *Sorbus aucuparia* (+). (J 56) *Urtica dioica* (+). (J 59) *Eurhynchium confertum* 2. (J 60) *Festuca vivipara* (+). (J 61) *Polytrichum juniperinum* 1; *Peltigera polydactyla* 1; *Conopodium majus* 1. (J 62) *Ranunculus repens* 2. (J 63) *Veronica chamaedrys* 1. (J 69) *Festuca vivipara* (+). (J 71) *Carex pulicaris* 1; *Carex flacca* 3; *Thymus drucei* 4. (J 72) *Thymus drucei* 1. (J 73) *Anemone nemorosa* 1. (J 76) *Sphagnum rubellum* 3. (J 77) *Cladonia ochrochlora* 1. (J 79) *Vaccinium vitis-idaea* 1. (J 80) *Juncus subuliflorus* (+). (J 82) *Pohlia nutans* 1. (J 83) *Brachythecium albicans* 3; *Polytrichum piliferum* 2; *Polytrichum juniperinum* 4r; *Cladonia furcata* 3; *Peltigera polydactyla* 2; *Pertusaria corallina* 4r; *Aira praecox* 3. (J 2) *Eurhynchium confertum* 3. (J 3) *Bryum capillare* 1. (J 4) *Crataegus monogyna* 1. (J 5) *Stellaria alsine* 3. (J 6) *Crataegus monogyna* 1. (J 7) *Pohlia nutans* 2; *Ptilidium ciliare* 1; *Mnium stellare* 1; *Tritomaria quinquedentata* 2. (J 9) *Ranunculus repens* 1; *Pohlia nutans* 1; *Tetraphis pellucida* 1e; *Barbilophozia barbata* 1r. (J 10) *Poa pratensis* ssp. *pratensis* 1; *Sphagnum girgensohnii* 5; *Tetraphis pellucida* 3e; *Cephaloziella* sp. 1. (J 21) *Achillea ptarmica* 2; *Succisa pratensis* 1; *Sieglingia decumbens* (+); *Cephaloziella* sp. 1. (J 22) *Conopodium majus* 3; *Mnium punctatum* 1; *Marsupella emarginata* 2; *Acrocladium sarmentosum* 1; *Riccardia pinguis* 1; *Drepanocladus revolvens* 1. (J 26) *Tetraphis pellucida* 3. (J 29) *Eriophorum angustifolium* 1; *Aulacomnium palustre* 2. (J 30) *Sieglingia decumbens* 3; *Lycopodium selago* 3. (J 32) *Plagiothecium curvifolium* 2.

(N.B. In this table 'e' has been used for species epiphytic on litter, buried branches, and so on within the Aufnahme, and 'r' indicates those species found on small rocks.)

TABLE VI/5

## ASSOCIATION CALTHO-ALNETUM

	P	P	P	P	P	P	M	M	M	M	M	P	P
Aufnahme No.	10	11	17	18	40	41	4	40	41	42	46	31	32
Species total	37	38	34	21	29	32	44	44	44	42	32	23	27
Aspect	NNW	N	NNW	NNW	NE	NE	N	NE	N	NW	NW	E	NE
Slope °	2	2	5	10	2	2	8	5	10	5	25	2	5
Quadrat size (m <sup>2</sup> )	4	4	4	4	4	4	10	10	10	10	4	4	4
Cover (Domin): Tree	5	4	5	7	9	7	9	9	9	6	4	4	6
Shrub	.	.	3	3	.	.	.	.	.	.	6	.	.
Herb	10	10	8	7	10	10	9	9	9	10	9	10	10
Bryop.	5	6	8	4	4	4	7	8	6	7	8	8	7

## All. Calthion and Association differential species

	S.A. TYPICUM						S.A. SALICO-BETULETOSUM						
<i>Caltha palustris</i>	2	3	1	3	.	2	3	4	4	4	.	3	1
<i>Glyceria fluitans</i>	3	2	4	(+)	2	5	2	6	.	2	6	6	1
<i>Ranunculus flammula</i>	3	3	3	4	1	2	3	3	3	4	.	5	4
<i>Juncus articulatus</i>	2	5	4	2	.	.	4	3	7	6	3	4	5
<i>J. effusus</i>	.	3	2	.	1	3	1	4	(+)	1	6	.	.
<i>Pellia epiphylla</i>	5	6	3	3	2	3	.	.	.	2	3	5	5
<i>Galium uliginosum</i>	3	1	.	2	.	3	1	3	2	4	1	1	.
<i>Juncus acutiflorus</i>	3	4	5	.	.	.	1	2	3	2	1	2	1
<i>Myosotis caespitosa</i>	2	4	2	.	.	.	1	2	3	3	2	.	.
<i>Epilobium palustre</i>	1	3	2	.	.	1	1	.	2	3	1	.	.
<i>Achillea ptarmica</i>	1	(+)	.	.	.	1	1	.	3	2	1	.	.
<i>Lychnis flos-cuculi</i>	2	1	.	.	.	.	1	1	3	3	.	.	.
<i>Juncus kochii</i>	1	4	.	.	.	.	.	.	.	.	.	4	4
<i>Angelica sylvestris</i>	.	.	.	.	.	.	3	3	1	1	.	.	.
<i>Juncus subuliflorus</i>	(+)	(+)	(+)	.	.	.	.	.	.	.	.	.	.
<i>Myosotis scorpioides</i>	.	.	.	.	2	2	.	.	.	.	.	.	.
<i>Dactylorhiza purpurella</i>	2	1	.	.	.	.	.	.	.	.	.	.	.
<i>Valeriana officinalis</i>	1	.	.	.	1	2	.	.	.	.	.	.	.
<i>Viola palustris</i>	.	2	4	.	.	.	.	.	.	.	.	4	3

## Differentials of Sub-Ass. typicum

<i>Alnus glutinosa</i>	6	7	4	6	9	8
<i>Dactylorhiza fuchsii</i>	3	2	2	1	2	.
<i>Mentha aquatica</i>	6	5	.	4	.	.
<i>Mentha X verticillata</i>	.	.	.	.	.	4

## Differentials of Sub-Ass. Salico-Betuletosum

<i>Acrocladium cuspidatum</i>	.	4	.	.	.	.	4	6	6	7	5	4	4
<i>Betula pubescens</i>	.	.	.	.	.	.	.	7	6	4	4	4	6
<i>Salix pentandra</i>	.	.	.	.	.	.	9	9	7	.	.	.	.
<i>Cardamine pratensis</i>	.	.	.	.	.	.	2	3	3	3	2	3	2
<i>Ajuga reptans</i>	.	.	.	.	.	.	3	2	4	4	3	.	.

## Other species

<i>Holcus lanatus</i>	5	4	4	4	8	5	4	4	4	5	6	2	4
<i>Ranunculus repens</i>	2	1	2	5	3	4	6	6	5	5	4	4	5
<i>Agrostis stolonifera</i>	4	.	.	5	5	5	5	4	4	4	4	5	7
<i>Lophocolea bidentata</i>	1	1	.	.	.	1	3	1	3	2	2	2	1
<i>Plagiocliia asplenioides</i>	3	4	.	.	.	3	1	.	.	2	3	5	5
<i>Succisa pratensis</i>	3	2	3	3	2	.	1	.	.	1	.	3	3
<i>Prunella vulgaris</i>	3	1	.	.	2	.	1	1	5	4	4	.	.
<i>Crepis paludosa</i>	.	1	.	3	2	1	2	.	.	1	.	.	1
<i>Holcus mollis</i>	3	.	.	.	.	.	.	1	.	2	.	2	3
<i>Filipendula ulmaria</i>	2	.	.	.	4	6	5	4	2	1	.	.	.
<i>Sanguisorba officinalis</i>	.	.	.	.	2	.	1	1	2	1	.	.	.
<i>Lysimachia nemorum</i>	.	.	.	.	2	.	3	.	1	1	4	.	.
<i>Eurhynchium praelongum</i>	.	.	.	.	2	3	3	1	2	1	.	.	.
<i>Thuidium tamariscinum</i>	1	.	.	3	.	1	.	.	.	.	.	.	2
<i>Agrostis tenuis</i>	2	.	.	.	4	.	.	.	.	.	.	1	1
<i>Anthoxanthum odoratum</i>	2	1	2	2	.	.	.	.	.	.	.	.	.
<i>Cirsium palustre</i>	2	3	3	.	1	.	.	.	.	.	.	.	.
<i>Rumex acetosa</i>	2	2	2	.	.	1	.	.	.	.	.	.	.
<i>Senecio jacobaea</i>	.	.	.	.	.	.	1	(+)	(+)	(+)	1	.	1
<i>Mnium undulatum</i>	4	3	.	.	3	2	2	1	1	.	.	.	.
<i>Geum urbanum</i>	.	.	.	.	.	.	3	3	4	1	.	.	.
<i>Mnium punctatum</i>	.	.	.	.	.	.	.	5	4	3	5	.	.
<i>Cerastium fontanum</i>	.	.	.	.	.	.	1	.	2	1	2	.	.
<i>Carex nigra</i>	.	.	.	.	.	.	2	2	1	.	3	.	.
<i>Pellia neesiana</i>	.	.	.	.	.	.	5	4	1	.	5	.	.
<i>Festuca rubra</i>	.	.	.	.	.	.	.	3	1	1	.	.	.
<i>Geranium sylvaticum</i>	.	.	.	.	.	.	2	1	1	.	.	.	.
<i>Deschampsia cespitosa</i>	.	.	.	.	.	.	4	.	1	2	1	.	.
<i>Cirsium heterophyllum</i>	.	.	.	.	.	.	1	1	3	1	.	.	.
<i>Poa trivialis</i>	.	.	.	.	.	.	.	1	2	2	1	.	.
<i>Diplophyllum albicans</i>	.	.	.	.	.	.	.	.	3	1	.	.	.
<i>Equisetum arvense</i>	.	.	.	.	.	.	1	3	1	.	.	.	.
<i>Mnium longirostrum</i>	.	.	.	.	.	.	.	2	3	4	.	.	.
<i>Rhytidiadelphus loreus</i>	1	1	3	.	.	.	.	.	.	.	.	.	.
<i>Mnium hornum</i>	1	1	.	3	.	.	.	.	.	.	.	.	.
<i>Acrocladium cuspidatum</i>	.	4	.	.	.	.	.	.	.	.	.	4	4
<i>Sphagnum palustre</i>	.	.	8	.	.	.	.	.	.	.	.	4	1
<i>Senecio aquaticus</i>	.	2	.	.	2	1	.	.	.	.	.	.	.
<i>Agrostis canina ssp. montana</i>	.	.	4	.	.	.	.	.	.	.	.	2	2
<i>Dryopteris dilatata</i>	.	.	1	1	.	.	.	.	.	.	.	(+)	.

Also: (P 10) *Dactylorhiza ericetorum* 1; *Senecio X ostensfeldii* 1; *Atricum undulatum* 1. (P 11) *Dactylorhiza ericetorum* 3; *Luzula multiflora* 1; *Pedicularis palustris* 1; *Cirriphyllum piliferum* 1. (P 17) *Conopodium majus* 3; *Aulacomnium palustre* 1; *Rhytidiadelphus squarrosus* 3; *Molinia caerulea* 3; *Pedicularis palustris* 1; *Narthecium ossifragum* 2; *Carex panicea* 4; *C. echinata* 3; *Potentilla erecta* 4; *Luzula multiflora* 2; *Corylus avellana* 2. (P 18) *Oxalis acetosella* 2; *Arrhenatherum elatius* 2; *Sorbus aucuparia* 6(1<sup>k</sup>). (P 31) *Sphagnum squarrosus* 6. (P 32) *Lophozia ventricosa* 2; *Scapania nemorea* 2; *Plagiothecium denticulatum* 1. (P 40) *Alchemilla glabra* 1; *Carex pallescens* 1; *Geum rivale* 2; *Equisetum sylvaticum* 4; *Cruciata laevipes* 3. (P 41) *Cruciata laevipes* 1; *Cardamine cf. amara* 2; *Chrysosplenium oppositifolium* 5; *Equisetum sylvaticum* 2; *Geranium robertianum* 1; *Melampyrum pratense* 1; *Athyrium filix-femina* 1. (M 4) *Stellaria neglecta* 1; *Pohlia nutans* 3; *Vicia cracca* 1; *Dactylis glomerata* 3; *Fraxinus excelsior* k; *Veronica beccabunga* 2. (M 40) *Dicranella palustris* 3; *Climacium dendroides* 2; *Brachythecium rivulare* 1; *Conocephalum conicum* 2; *Phleum pratense* 1; *Dactylis glomerata* 1; *Veronica beccabunga* 2; *Chrysosplenium oppositifolium* 2. (M 41) *Climacium dendroides* 1; *Eurhynchium striatum* 2. (M 42) *Bryum pseudotriquetrum* 1. (M 46) *Campylopus flexuosus* 1; *Drepanocladus uncinatus* 1; *Eurhynchium striatum* 1; *Corylus avellana* 6; *Fraxinus excelsior* 3; *Crataegus monogyna* 3.

TABLE VI/7

## ASSOCIATION NARDIETUM SCALARIS

	B	B	B	B	B	B
Aufnahme No.	44	43	42	21	32	33
Species total	16	18	12	27	13	13
Aspect	-	E	N	N	NE	N
Slope °	-	30	80	50	10-40	10-45
Quadrat size (m <sup>2</sup> )	1	1x½	1x½	3x2	1x4	1x2
Cover (Domin): Tree	4	4	4	.	9	8
Shrub	.	.	.	3	.	.
Herb	5	4	3	4	5	5
Bryop.	8	9	5	8	8	8

Association character species (Order character species denoted by 0)

<i>Nardia scalaris</i>	5	7	4	5	1	.
<i>Dicranella heteromalla</i>	5	2	3	.	.	.
<i>Ditrichum hetermallum</i>	4	1	3	.	.	.
<i>Baeomyces rufus</i>	1	1	7	.	.	.
<i>Polytrichum aloides</i> 0	5	1	3	.	.	.
<i>P. urnigerum</i>	5	.	.	6	.	.

Differential species of Polytrichum sub-association

<i>Polytrichum formosum</i>	.	1	.	3	5	4
<i>Mnium hornum</i>	.	.	.	4	6	7
<i>Oxalis acetosella</i>	.	.	.	1	1	4

Other cryptogams

<i>Diplophyllum albicans</i>	4	4	4	4	4	3
<i>Barbilophozia floerkei</i>	2	3	1	.	.	.
<i>Lepraria incana</i>	1	.	4	.	3	.
<i>Pellia epiphylla</i> 0	.	1	.	.	.	4
<i>Hypnum cupressiforme</i>	.	.	1	3	.	.
<i>Dicranum scoparium</i>	.	.	.	4	3	.

Phanerogams

<i>Deschampsia flexuosa</i>	4	4	1	4	5	3
<i>Agrostis tenuis</i>	4	2	2	3	.	3
<i>Luzula pilosa</i>	2	2	.	1	.	.
<i>Anthoxanthum odoratum</i>	.	1	.	3	.	.
<i>Luzula sylvatica</i>	.	2	.	.	.	2
<i>Digitalis purpurea</i>	.	2	.	.	.	1
<i>Athyrium filix-femina</i>	.	.	.	2	.	4
<i>Dryopteris pseudomas</i>	.	.	.	3	.	2
<i>D. dilatata</i>	.	.	.	1	.	2
<i>Blechnum spicant</i>	3	.	.	2	.	.

Canopy shade

<i>Betula pubescens</i>	3	4	4	2 <sup>k</sup>	9	.
<i>Corylus avellana</i>	.	.	.	2 <sup>k</sup>	.	.

Occurring once:

(44) *Festuca rubra* 4; *Cladonia macilenta* 2. (43) *Lophozia ventricosa* 1; *Lophozia obtusa* 1. (21) *Bryum capillare* 2; *Rhacomitrium fasciculare* 2; *R. canescens* 3; *Pohlia cruda* 3; *Viola riviniana* 1; *Pleurozium schreberi* 4; *Hypericum pulchrum* 2; *Veronica officinalis* 1; *Hieracium* sp. 1. (32) *Vaccinium myrtillus* 1; *Thelypteris dryopteris* 1; *Tetraxis pellucida* 4; *Isopterygium elegans* 4. (33) *Agrostis canina* ssp. *montana* 3.



TABLE VI/6

## DIPLOPHYLLUM-BARTRAMIA Community

	B	B	B
Aufnahme No.	14	16	15
Species total	16	13	17
Aspect	NNE	N	N
Slope °	80- 100	80- 90	45- 70
Quadrat size (m <sup>2</sup> )	2x $\frac{1}{2}$	1	1
Cover (Domin): Tree	9	6	9
Shrub	.	.	.
Herb	4	4	4
Bryop.	9	7	9
<u>Character species</u>			
Bartramia pomiformis	6	5	2
Pohlia nutans	4	6	1
<u>Structurally dominant cryptogams</u>			
Diplophyllum albicans	5	3	5
Mnium hornum	6	3	7
Dicranum majus	.	.	6
<u>Other species</u>			
Hypnum cupressiforme	.	3	1
Lepraria incana	3	4	.
Cladonia macilenta	3	.	4
C. coniocraea	2	.	3
C. chlorophaea	.	2	2
C. squamosa	3	.	1
Festuca ovina ssp. tenuifolia	1	.	3
Agrostis tenuis	1	.	2
<u>Canopy cover</u>			
Betula pubescens	9	6	9

Occurring once:

(14) Vaccinium myrtillus 2; Campanula rotundifolia 1; Dryopteris pseudomas 2; Athyrium filix-femina 1; Polytrichum aloides 3. (16) Fissidens bryoides 2; Lophocolea bidentata 1; Eurhynchium praelongum 1; Lophozia ventricosa 1; Calypogeia fissa 1. (15) Deschampsia flexuosa 3; Dicranum scoparium 1; Plagiothecium denticulatum 3; Dicranella heteromalla 2.

TABLE VI/2

Table with columns for Ass. Molinieto-Callunetum, Ass. Agrosti-Festucetum, Ass. Thelypterido-Juniperetum, and Juniperetum. Rows include species names, regional character species, differential species, and other species, with numerical data across various columns.



Table VI/1. JUNIPER SCRUB (J)

PARTIALLY SORTED TABLE

Main data table with columns for species names and quadrats (11-30, 31-50, 51-70, 71-90, 91-110, 111-130, 131-150, 151-170, 171-190, 191-210). Contains counts and signs (+) for various plants like Molinia caerulea, Juncus communis, and others.

THE FOLLOWING SPECIES OCCURRED IN ONLY ONE OR TWO QUADRATS AS LISTED :-

- List of species with their specific quadrat numbers, including Arrhenatherum elatius, Aira praecox, Anemone nemorosa, Achillea ptarmica, Carex pulicaris, C. demissa, C. pallescens, C. flacca, Conopodium majus, Crataegus monogyna, Cirsium palustre, Drosera rotundifolia, Epilobium montanum, E. angustifolium, Fagus sylvatica, Festuca vivipara, Eriophorum angustifolium, Juncus kochii, Lycopodium selago, Melampyrum pratense, Poa pratensis ssp. pratensis, Prunella vulgaris, Ranunculus repens, Rumex acetosella, Sorbus aucuparia, Senecio jacobaea, Succisa pratensis, Sieglingia decumbens, Stellaria alsine, Thymus drucei, Tussilago farfara, Taraxacum officinale agg., Urtica dioica, Veronica chamaedrys, Vaccinium vitis-idaea, Aulacomnium palustre, Acrocladium sarmentosum, Atrichum undulatum, Brachythecium albicans, Cirriphyllum piliferum, Bryum capillare, Drepanocladus revolvens, Eurhynchium confertum, Hookeria lucens, Isoeterygium elegans, Isoetecium mysuroides, Grimmia apocarpa, Mnium punctatum, Mnium stellare, Pellia epiphylla, Pohlia nutans, Plagiothecium curvifolium, Polytrichum juniperinum, P. piliferum, Rhacomitrium fasciculare, R. heterostichum, Tetraphis pellucida, Barbilophozia barbata, Cephalozia sp., Lophocolea cuspidata (epiphyte, sometimes on Calluna and decaying vegetation), Marsipella emarginata, Ptilidium ciliare, Lepidozia reptans, Nardia scalaris, Riccardia pinguis, Scapania gracilis

SPECIES NOTED IN THE AREA BUT NOT IN QUADRATS :-

- List of species noted in the area but not in quadrats, including Ajuga reptans, Alchemilla glabra, Aesculus hippocastanum, Bellis perennis, Dryopteris pseudomas, Cryptogramma crispa, Cardamine pratensis, Festuca ovina ssp. vivipara, Hypochaeris radicata, Juncus effusus, Lysimachia nemorum, Leontodon hispidus, L. autumnalis, Poa trivialis, Potentilla fruticosa, Pedicularis sylvatica, Ranunculus flammula, R. repens, Rubus chamaemorus, R. idaeus, R. fruticosus agg., Rosa afzeliana var. glaucophylla (= Rosa dumalis C.T.W.), Selaginella selaginoides, Viola lutea, Tritomaria quinquevoluta, Sphagnum quinquefarium, S. rubellum, S. fuscum, S. girgensohnii





