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Site 3164: Black Forest Trail, Peninsula State Park, Door County. 1949-06-22

[s.l.]: [s.n.], 1949-06-22

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Tree	BA	S	Tree	BA	S	Tree	BA	S
Acer negundo			Fraxinus penn.			Quercus alba		
Acer rubrum			Fraxinus lance			Quercus ellips		
✓Acer saccharum			Juglans cinere			Quercus macroc.		
Acer spicatum			✓Ostrya virgin.			Quercus rubra		
Amelanchier sp.			Pinus Banksian			Quercus sp.		
Betula lutea			Pinus resinosa			✓Sorbus decora		
✓Betula papyrifera			✓Pinus Strobus			✓Tilia amer.		
Carpinus carol.			Populus grand.			✓Tsuga canad.		
Carya cordif.			Populus trem.			Ulmus amer.		
Carya ovata			Prunus pensyl.			Ulmus fulva		
Crataegus sp.			Prunus serotin			✓Alnus		
✓Fraxinus amer.			Prunus virgin.					

Distance:

			Shrubs & Herbs					
Achillea millefolium			Euphorbia corol.			Polygonella artic.		
Agrimonia gryposepala			Fragaria spp.			Polypodium virg.		
Agropyron trachycaulon			Galium boreale			Potentilla simplex		
var. glaucum			Galium triflorum			Prenanthes alba		
Alnus rugosa			Gaultheria procum.			Pteridium aquilinum		
Amorpha canescens			Gaylussacia baccata			var. latiusculum		
Amphicarpa bracteata			Geranium maculatum			Pyrola elliptica		
Andropogon Gerardi			Geum canadense			Pyrola rotundifolia		
Andropogon scoparius			Gnaphalium obtusif.			Pyrola secunda		
Anemone virginiana			var. micradenium			Ranunculus fasc.		
Antennaria plantag.			Goodyera pubescens			Ranunculus rhomboid.		
Apocynum androsaem.			Helianthemum can.			Rhus glabra		
Aquilegia canadensis			Helianthus occident.			Rhus radicans		
Arabis lyrata			Heliopsis scabra			Rhus typhina		
✓Aralia nudicaulis			Hepatica americana			✓Ribes americanum		
Arctostaphylos Uva			Heuchera Richardsonii			Rosa spp.		
Aronia melanocarpa			Hieracium canadense			Rubus-blackberry		
Artemisia caudata			Hieracium scabrum			✓Rubus-dewberry <i>pauciflorus</i>		
Aster azureus			Houstonia longifolia			Rubus-raspberry		
Aster lateriflorus			Hypoxis hirsuta			Rudbeckia hirta		
var. pendulus			Hystrix patula			Salix discolor		
Aster laevis			Juncus Greenii			var. latifolia		
✓Aster macrophyllus			Koeleria crisata			Sambucus canadensis		
Aster ptarmicoides			Krigia biflora			Sanicula gregaria		
Aster sagittifolius			Lactuca canadensis			Sisyrinchium camp.		
Athyrium angustatum			Lathyrus ochroleucus			Smilacina racemosa		
Aureolaris pedic.			Lathyrus venosus			Smilacina stellata		
Bromus ciliatus			Lithospermum canes.			Smilax ecirrhata		
var. intonsus			Lithospermum croceum			Smilax herbacea		
Calamagrostis			Lupinus perennis			Smilax hispida		
Carex Crawfordii			Lycopodium complan.			Solidago canadensis		
Carex pennsylvanica			Lycopodium obscurum			var. gilvocan.		
Carex siccata			Lysimachia quadrif.			Solidago juncea		
Ceanothus ovatus			✓Maianthemum can.			Solidago nemoralis		
Celastrus scandens			Mitchella repens			Solidago speciosa		
Chimaphila umbellata			Monarda fistulosa			var. angustata		
Clematis virginiana			Myrica asplenifolia			Tephrosia virginiana		
Comandra umbellata			Onoclea sensibilis			Tradescantia ohien.		
Convolvulus spitham.			Osmorhiza Claytoni			Trientalis borealis		
Coreopsis palmata			Osmunda Claytoniana			✓Uvularia grandiflora		
Cornus alternifolia			Osmunda regalis			Uvularia sessilif.		
Cornus canadensis			Oxalis violacea			Vaccinium angustif.		
✓Cornus femina			Panicum implicatum			Vaccinium canadense		
Cornus stolonifera			Parthenocissus vitacea			Vicia americana		
Corylus americana			Pedicularis lanc.			Vicia villosa		
Cypropedium acaule			Phlox pilosa			Viola canadensis		
Desmodium acuminatum			Phryma leptostachya			Viola cucullata		
Desmodium canadense			Physalis virginiana			Viola pedata		
Diervilla Lonicera			Poa compressa			var. lineariloba		
Dryopteris spin.			Polygala polygama			Biola sagittata		
Epigaea repens			✓Polygonatum biflorum			Vitis aestivalis		
Erigeron ramosus			✓Epifagus			Zanthoxylum amer.		
			✓Linnaea borealis					

Actaea rubra	Erysimum cheir.	Physocarpus opulif.
Adiantum pedatum	Erythronium albidum	Podophyllum peltatum
Aletris farinosa	Eupatorium perf.	Polemonium reptans
Anemone canadensis	Galium aparine	Polygala sanguinea
Anemone cylindrica	Galium asperellum	Polygonatum pubescens
✓ Anemone quinquefolia	Galium Claytoni	Potentilla arguta
Apocynum cannabinum	Galium concinnum	Prunella vulgaris
Arabis canadensis	Galium lanceolatum	Pteretis nodulosa
Aralia hispida	Gerardia Gattingeri	Pycnanthemum virg.
Arenaria lateriflora	Habenaria psycodes	Ranunculus abortivus
Arisaema strorubens	Hamamelis virginiana	Ranunculus acris
Asarum canadense	Helianthemum Bick.	Ranunculus pensylv.
Asclepias amplexic.	Hepatica acutiloba	Rhus copallina
Asclepias phytolac.	Hydrophyllum virg.	Rhus glabra
Asclepias syriaca	Hypericum Kalmianum	var. borealis
Asclepias tuberosa	Ilex verticillata	Rhus Vernix
Aster caeruleus	Impatiens biflora	Ribes Cynosbati
Aster puniceus	Iris virginica	Ribes hirtellum
Aster sericeus	var. Shrevei	Ribes missouriense
Baptisia leucantha	Isopyrum biternatum	Rudbeckia laciniata
Baptisia leucophaea	Juncus tenuis	Sambucus pubens
Boehmeria cylindrica	Laportea canadensis	Sanguinaria can.
Botrychium virginianum	Lechea intermedia	Sanicula marilandica
Bromus Kalmii	Ledum groenlandicum	Scutellaria epilob.
Campanula aparinoides	Lespedeza capitata	Scutellaria parvula
Campanula rotundif.	Liatris aspera	var. Leonardi
Ceanothus americanus	Liatris cylindrica	Silphium perfoliatum
Chamaedaphne caly.	Liatris pycnostachya	Solidago castrensis
Circaea latifolia	Lilium michiganense	Solidago graminifolia
Claytonia virginica	Linaria canadensis	var. remota
Clintonia borealis	Liparis lilifolia	Solidago hispida
Conopholis americana	Lobelia cardinalis	Solidago missouriensis
Coptis trifolia	Lobelia inflata	var. glaberrima
Cornus rugosa	Lobelia spicata	Specularia perfoliata
Corydalis aurea	Lonicera dioica	Spiraea alba
Corydalis semperv.	Lonicera oblongif.	Spiraea tomentosa
✓ Corylus cornuta	Lonicera prolifera	var. rosea
Cryptotaenia can.	Lychnis alba	Sporobolus crypt.
Cystopteris fragilis	Lycopodium clavatum	Steironema lanc.
Cyperus filiculmis	Lycopus americana	Stellaria media
Cyperus Schweinitzii	Lysimachia terrestris	Symphoricarpos albus
Danthonia spicata	Menispermum can.	Taenidia integ.
Dentaria laciniata	Mitella diphylla	Thalictrum dioicum
Desmodium nudiflorum	Monarda punctata	✓ Trillium grandiflorum
Dicentra canadensis	Monotropa uniflora	Verbena stricta
Dioscorea villosa	Oenothera biennis	Veronica americana
Dodecatheon Meadia	Oenothera muricata	Veronicastrum virg.
Dryopteris cristata	Optunia Rafinesquii	✓ Viburnum acerif.
Dryopteris Linnaeana	Orobancha uniflora	Viburnum affine
Dryopteris marg.	Osmunda cinnamomea	Viburnum Lentago
Dryopteris Pheg.	Oxypolis rigidier	Viola eriocarpa
Equisetum arvense	var. longifolia	Viola incognita
Equisetum hyemale	Pedicularis canadensis	✓ Viola pallens <i>canadensis</i>
var. affine	Pellaea glabella	✓ Viola pubescens
Erechtites hier.	Pentstemon gracilis	Woodsia ilvensis
	var. wisconsinensis	

Abies balsamea		Actaea pachypoda
Acer rubrum		Actaea rubra
Acer saccharum		Adenocaulon bicolor
Acer spicatum		Adiantum pedatum
Amelanchier sp.		Agrimonia gryposepala
Betula lutea		Allium tricoccum
Betula papyrifera		Alnus incana
Carpinus caroliniana		Alnus rugosa
Carya cordiformis		Amphicarpa bracteata
Fagus grandifolia		Anemone canadensis
Fraxinus americana		Anemone cylindrica
Fraxinus nigra		Anemone quinquefolia
Juglans cinerea		Antennaria sp.
Ostrya virginiana		Apocynum androsaemifolium
Picea glauca		Apocynum cannabinum
Pinus banksiana		Aquilegia canadensis
Pinus resinosa		Aralia hispida
Pinus strobus		Aralia nudicaulis
Populus balsamifera		Aralia racemosa
Populus grandidentata		Arctostaphylos uva-ursi
Populus tremuloides		Arisaema atrorubens
Prunus pensylvanica		Asarum canadense
Prunus serotina		Asclepias exaltata
Prunus virginiana		Aster cordifolius
Quercus alba		Aster lateriflorus
Quercus ellipsoidalis		Aster macrophyllus
Quercus macrocarpa		Aster prenanthoides
Quercus rubra		Aster sagittifolius
Thuja occidentalis		Aster shortii
Tilia americana		Aster umbellatus
Tsuga canadensis		Athyrium filix-femina
Ulmus americana		Athyrium thelypteroides
Ulmus rubra		Boehmeria cylindrica
		Botrychium lanceolatum
		Botrychium matricariaefolium
		Botrychium virginianum
		Brachyelytrum erectum
		Bromus purgans
		Campanula americana
		Campanula rotundifolia
		Cardamine pensylvanica
		Carex albursina
		Carex pensylvanica
		Carex plantaginea
		Caulophyllum thalictroid
		Ceanothus ovatus
		Celastrus scandens
		Chimaphilia umbellata
		Cicuta maculata
		Circaea alpina
Depth A0 layer		Circaea quadrisulcata
Depth A1 layer		Cirsium altissimum
Depth A2 layer		Claytonia caroliniana
Soil pH		Claytonia virginica
Soil MHC		Clematis verticillaris
Tons Water / acre		Clintonia borealis
Specific gravity		Comandra richardsiana
Calcium %		Comptonia peregrina
Potassium %		Convolvulus spithameus
Phosphorus %		Coptis groenlandica
Calcium lbs/acre		Corallorhiza maculata
Potassium lbs/acre		Corallorhiza striata
Phosphorus lbs/acre		Corallorhiza trifida

Data Form No. 45

Plant Ecology Research

Continuum Index:

Location

County: Door

Place: Black Forest
Trail
Penineula St. Pk

Investigators:

Date: 6/22/49

Method of Sampling:

Presence.

Remarks:

THE CORTICOLOUS VEGETATION OF THE NORTHERN WISCONSIN UPLAND
Data collected by William L. Culberson, Summers 1952-1953.

From a 40-tree sample, the continuum index of this stand is..... 2547
Abbreviations in the data sheets refer to the following species:

<i>Alectoria nidulifera</i>	<i>Parmelia saxatilis</i>	(Bryophytes)
<i>Allarthonia caesia</i>	<i>Parmelia subaurifera</i>	
<i>Anaptychia palmatula</i>	<i>Parmelia subquercifolia</i>	<i>Amblystegium varium</i>
<i>Anaptychia speciosa</i>	<i>Parmelia sulcata</i>	<i>Anomodon attenuatus</i>
<i>Arthonia radiata</i>	<i>Parmelia trichotera</i>	<i>Anomodon minor</i>
<i>Bacidia chlorococca</i>	<i>Parmeliopsis ambigua</i>	<i>Anomodon rostratus</i>
<i>Bacidia fuscorubella</i>	<i>Parmeliopsis hyperopta</i>	<i>Anomodon tristis</i>
<i>Bacidia</i> sp.	<i>Parmeliopsis placorodia</i>	<i>Bazzania trilobata</i>
<i>Buellia punctata</i>	<i>Peltigera canina</i>	<i>Brachythecium</i> sp.
<i>Buellia stillingiana</i>	<i>Pertusaria</i> sp.	<i>Brotherella recurvans</i>
<i>Caloplaca aurantiaca</i>	<i>Physcia aipolia</i>	<i>Campylium hispidulum</i>
<i>Caloplaca cerina</i>	<i>Physcia ascendens</i>	<i>Chamberlainia acuminata</i>
<i>Caloplaca</i> sp.	<i>Physcia ciliata</i>	<i>Dicranum flagellare</i>
<i>Candelaria concolor</i>	<i>Physcia grisea</i>	<i>Dicranum montanum</i>
<i>Candelaria fibrosa</i>	<i>Physcia millegrana</i>	<i>Dicranum</i> sp.
<i>Cetraria atlantica</i>	<i>Physcia orbicularis</i>	<i>Entodon</i> sp.
<i>Cetraria ciliaris</i>	<i>Physcia syncolla</i>	<i>Eurhynchium serrulatum</i>
<i>Cetraria fendleri</i>	<i>Physcia tribacoides</i>	<i>Eurhynchium strigosum</i>
<i>Cetraria oakesiana</i>	<i>Pyrenula leucoplaca</i>	<i>Frullania asagrayana</i>
<i>Cetraria pinastri</i>	<i>Pyrenula nitida</i>	<i>Frullania bolanderi</i>
<i>Cladonia botrytes</i>	<i>Pyxine sorediata</i>	<i>Frullania eboracensis</i>
<i>Cladonia cenotea</i>	<i>Ramalina fastigiata</i>	<i>Heterophyllum</i>
<i>Cladonia chlorophaea</i>	<i>Ramalina pollinaria</i>	haldanianum
<i>Cladonia coniocraea</i>	<i>Rinodina halei</i>	<i>Hypnum reptile</i>
<i>Cladonia cristatella</i>	<i>Rinodina papillata</i>	<i>Hypnum</i> sp.
<i>Cladonia verticillata</i>	<i>Rinodina</i> sp.	<i>Jamesoniella autumnalis</i>
<i>Collema subfurvum</i>	<i>Trypethelium virens</i>	<i>Leskea</i> sp.
<i>Conotrema urceolatum</i>	<i>Usnea</i> sp.	<i>Leucodon sciuroides</i>
<i>Evernia mesomorpha</i>	<i>Xanthoria fallax</i>	<i>Lindbergia brachyptera</i>
<i>Graphis scripta</i>	<i>Xanthoria polycarpa</i>	var. austinii
<i>Lecanora pallida</i>		<i>Lophocolea heterophylla</i>
<i>Lecanora subfusca</i>		<i>Mnium cuspidatum</i>
<i>Lecanora varia</i>		<i>Mnium spinulosum</i>
<i>Lecidea berengeriana</i>		<i>Neckera pennata</i>
<i>Lecidea nylanderi</i>		<i>Orthotrichum</i> sp.
<i>Lecidea vernalis</i>		<i>Plagiochila asplenioides</i>
<i>Lepraria aeruginosa</i>		<i>Plagiothecium</i> sp.
<i>Leptorhaphis epidermidis</i>		<i>Platygyrium repens</i>
<i>Le sym</i> = unknown crustose		<i>Porella platy-</i>
<i>Lobaria pulmonaria</i>		phylloidea
<i>Lobaria quercizans</i>		<i>Ptilidium pulcherrimum</i>
<i>Normandina pulchella</i>		<i>Pylasia</i> sp.
<i>Ochrolechia pallescens</i>		<i>Radula complanata</i>
<i>Opegrapha varia</i>		<i>Tetraphis pellucida</i>
<i>Parmelia andreana</i>		<i>Thuidium delicatulum</i>
<i>Parmelia aurulenta</i>		<i>Ulota crispa</i>
<i>Parmelia borrieri</i>		
<i>Parmelia caperata</i>		
<i>Parmelia cetrarioides</i>		
<i>Parmelia crinita</i>		
<i>Parmelia physodes</i>		
<i>Parmelia rupestris</i>		

Ecology Laboratory
University of Wisconsin
Madison

No. trees	13	9	8	3										2		5		40		
	Ac rub	Ac sac	Be lut	Be pap	Fa gra	Os vir	Pi ban	Pi res	Pi str	Po gra	Po tre	Pr ser	Qu alb	Qu ell	Qu rub	Ti ame	Ts can	Ul ame	Total	Frequency
Ba chl				2															2	5
Ca aur		1																	1	3
Cn con		7				1													8	20
Cr neg		9			2										1		3		15	38
Gr scr		10													2				12	30
Le sub		3																	3	8
Le sym		5				2													7	18
Lp epi				6															6	15
Pa aur		3																	3	8
Pa rud		2													1				3	8
Pe sp.		1																	1	3
Ph mil		2																	2	5
Ph orb		9			1	3									1				14	35
Ph tri		4																	4	10
Ri hal		4																	4	10
Xa fal		1																	1	3
Tr vir					1														1	3
Ph gri		2																	2	5
	63			8	4	6									5		3		89	
An att						1													1	1
An min						1													1	1
Fr bol		1																	1	3
Fr ebo		8			1	1									1				11	28
Li aus		2				1													3	8
Or sp.		1																	1	3
Pl rep		2				1													3	8
	14			0	1	5									1		0		21	