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### *Phytosociological studies of mire ecosystems in eastern Canada*

Paul Linus Comeau

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PHYTOSOCIOLOGICAL STUDIES OF MIRE ECOSYSTEMS  
IN EASTERN CANADA

By  
PAUL LINUS COMEAU

VOLUME 2  
PHYTOSOCIOLOGICAL TABLES



PHYTOSOCIOLOGICAL TABLE OUTPUT  
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- (1) THE NUMBERS ACROSS THE TOP OF THE TABLE ARE THE SERIAL NUMBERS OF THE RELEVES (READING DOWNWARDS).
- (2) THE SPECIES NAMES AND REFERENCE NUMBERS ARE LISTED DOWN THE LEFT-HAND SIDE OF THE TABLE. IN CASE OF AMBIGUITY OR DOUBT AS TO THE SPECIES THEY REFER TO, CONSULT THE COMPLETE SPECIES LISTING AT THE END OF THIS VOLUME.
- (3) THE COVER DATA ARE RECORDED IN THE TABLE. THE DEGREES OF COVER REPRESENTED BY THE SYMBOLS ARE GIVEN IN THE TABLE OPPOSITE.
- (4) RARE SPECIES WITH ONLY FEW OCCURRENCES ARE PRINTED ADJACENT TO THE TABLE. THE ACCOMPANYING NUMBERS INDICATE THE RELEVES IN WHICH THEY OCCURRED.
- (5) THE RELEVÉ NUMBERS ARE COLOUR-CODED ACCORDING TO MIRE TYPE: CMBROTROPHIC= YELLOW, TRANSITION=WHITE, RHEOTROPHIC= RED.
- (6) THE RED DOTS BENEATH THE RELEVÉ NUMBERS INDICATE A MARITIME LOCATION. THE RELEVÉS WITHOUT RED DOTS ARE LOCATED IN CONTINENTAL AREAS.

THE RELEVÉS LISTED IN THE TABLE WERE MADE IN WHAT WAS SUBJECTIVELY ASSESSED TO BE HOMOGENEOUS VEGETATION (I.E. WELL WITHIN THE BOUNDARIES OF THE COMMUNITY). THEY ARE CONSIDERED TO BE REPRESENTATIVE OF THE NATURE OF THE PLANT COMMUNITY AS IT OCCURS AT THE SAMPLE SITE. NORMALLY THE QUADRAT SIZE USED WAS 1M. X 1M.

COVER SCALE  
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SYMBOL	COVER
5	81% - 100%
4	61% - 80%
3	41% - 60%
2	21% - 40%
1	1% - 20%
+	<1%
-	ADDITIONAL SPECIES

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OMBROTROPHIC = 89%

TRANSITION = 11%

PICEA MARIANA (MIRE FOREST) NODUM (TABLE 4)

M = 53%

C = 47%

38 REL;

7 SPP (43% OCCUR ONLY ONCE)

NEEDLE  
DOMINANT

102 PICE MARI 2 1 1 1 2 1 1 4 3 2 1 1 2 5 2 4 3 1 2 1 2 1 2 5 3 1 + 2 2 2 1 3 1 1 3 1 2 1

VARIANTS  
AND  
SUB-VARIANTS

86 LARI LARI  
12 BETU POPY  
103 PINU BANK

1 1 2 1 + + 1 1 1 1 + 1 1 1 1 1 1 1 1 1 1

+ +

1 2 1

COMPANIONS

1 ABIE BALS  
104 PINU STRO  
144 THUJ OCCI

+ 1

7 SPP

OMBROTROPHIC = 100%

VACCINIUM ANGUSTIFOLIUM-LEPIDOZIA REPTANS NGDUM (TABLE 5)

M = 66.7%

C = 33.3%

0 0 0  
6 6 8  
6 6 8  
5 4 7  
• •

3 REL;

18 SPP (72% OCCUR ONLY ONCE)

NO. OF  
CHARACTER

153 VACC ANGU + 1 1  
226 LEPI REPT + + 1

ASSOCIATES

182 CLAD CGNI 1 +  
268 TETR PELL + +

COMPANIONS

237 PLEU SCHR - 1  
210 DICR FUSC +  
236 PLAG LAET +  
242 FTIL CRIS +  
263 HYPO PHYS +  
43 CCFT TRIF 1  
84 KALM ANGU +  
92 MAIA CANA -  
97 NEMO MUCR -  
102 PICE MARI +  
233 OCON SPFA 1  
251 SPHA FLSC 1  
1 ABIE BALS 1  
186 CLAD FIMB +

18 SPP

OMBROTROPHIC = 100%

PLEURCZIUM SCHREBERI NODUM (TABLE 6)

M = 63.6% 0 0 0 0 0 0 0 0 0 1 0 11 REL;  
 C = 36.4% 6 3 5 6 6 8 7 6 8 0 8  
 6 7 4 8 7 8 0 8 5 3 0 45 SPP (42% OCCUR ONLY ONCE)  
 1 5 6 5 6 6 0 4 0 4 0

MIRE CHARACTERS

39	CHAM CALY	1	2	2	1					+	+	
156	VACC OXYC		1	+						+	+	+
85	KALM FOLI		1	1					+		+	
254	SPHA MAGE									1	1	1
135	SMIL TRIF										1	
248	SPHA RECU									1	2	2

NODAL DOMINANT

237	PLEU SCHR	5	2	5	5	5	3	5	4	5	1	3
-----	-----------	---	---	---	---	---	---	---	---	---	---	---

ASSOCIATES

84	KALM ANCU	4	2	3	+	1	1	1	+	1		1	
87	LEDU GRGE		+	1	1		1	1	1		+	1	+

VARIANTS

153	VACC ANGU	3	2	1	1	1	1			1	+	
102	PICE MARI		+	1	+	1	1	1		1		+
226	LEPI REPT			1			1	1	1	1	1	1
216	DICR UNDU				1			+	1	+	3	+
210	DICR FUSC						1		+	+	1	+

COMPANIONS

67	GAUL HISP		1	+			1	1		1	1	
181	CLAD CHLO				+				+	+	1	
182	CLAD CCNI				+						+	+
37	CARE TRIS			+						1	1	
199	CLAD RANG			+				+				
214	DICR PCLY			+					+			
120	RUBU CHAM		1	+								
186	CLAD FIMB							+			+	
239	POHL SPHA									+	+	
241	POLY STRI			+							+	
242	PTIL CRIS				1				1			
268	TETR PELL							+			+	

26 spp

ALSO : (19 spp)

1	ABIE BALS	375	58	ERIO ANGU	800	97	NEMO MUCR	676
157	VACC VITI	375	162	AULA PALU	800	163	BAZZ TRIL	886
172	CEPH CCNN	1034	189	CLAD GLAU	1034	193	DICR DRUM	886
209	DICR FLAG	800	212	DICR MAJU	375	213	DICR MONT	684
222	HYPN IMPG	850	233	OCON SPHA	1034	236	PLAG LAET	850
238	POHL NUTA	850	256	SPHA NEMO	886	261	SPHA RUSS	375
262	SPHA RUBE	375						

OMBROTROPHIC = 100%

PICEA MARIANA (4 X 4M) NODUM (TABLE 7)

• M=100%

0 0 0 0 0 0 0  
 0 3 1 0 0 0 2 0  
 9 4 7 3 0 5 7 1  
 2 0 0 7 7 4 7 0

8 REL,

56 spp (30% occur only once)

• • • • • • • •

MIRE CHARACTERS	39	CHAM CALY	1	1	+	1	+	1
	47	DFCS RGTU	+	+	+	+	1	
	85	KALM FCLI	+	+	+	+		+
	126	SARR PURP		+			+	+
	254	SPHA MAGE	1	+			+	
	262	SPHA RUBE	1	1				

RADIAL DOMINANT	102	PICE MARI	5	5	5	5	4	4	5	5
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ASSOCIATES	87	LEDU GRGE	1	1	+	1	+	1	+	1
	84	KALM ANGU	+	1	+	1	1	2	1	
	210	DICR FUSC	1	+	+	+	1	+	+	
	216	DICR UNDU	1	1	1	1	1	3	+	
	226	LEPI REPT	1	1	2	+	1	1	+	

VARIANTS	172	CEPH CONN	1	+	+	+	+	+		
	261	SPHA RUSS	1	+	1	1	2			
	231	MYLI ANGM	+	+	1	+				
	158	VIEU CASS			+	+	+	+	+	
	153	VACC ANGU		+	1		+	2	1	
	237	PLEU SCHR	+	+	+	+		2		
	239	FCHL SPHA	+	+	+	+				
233	ODCN SPHA	+	+	+						

COMPANIONS	120	RUBU CHAM		+	+		1		+	2
	163	BAZZ TRIL	1		1		1		1	
	181	CLAD CHLG		+		+		+		+
	6	ARON PRUN				+	+	1		
	44	CCRN CANA				+			1	+
	52	EMPE NIGR					1		+	1
	97	NEMO MUCR	+		+			+		
	115	RHGD CANA	1		+				1	
	191	CLAD GRAC			+				1	+
	192	CLAD IMPE			1				1	+
	199	CLAD RANG					+		1	1
	213	DICR MONT		+				+	+	
	256	SPHA NEMO	2			+			1	
	42	CLIN BORE	1			2				
	145	TRIE BORE				+				+
173	CEPH MEDI		+				2			
178	CLAD ARBU			+					1	
186	CLAD FIMB			+					+	
222	HYPN IMFO			+			1			

39 spp

ALSO : (17 spp)

1	AEIE PALS	277	58	ERID ANGU	7	67	GAUL HISP	277
92	MAIA CANA	10	93	MELA LINE	340	154	VACC BORE	92
156	VACC OXYC	277	157	VACC VITI	10	196	CLAD PITY	7
200	CLAD SQUA	277	204	CLAD TERR	7	205	CLAD UNCI	7
215	DICR SCOP	37	221	HYLO SPLE	277	228	LOPH ATTE	340
230	MICR SETA	37	251	SPHA FUSC	170			

OMBROTROPHIC = 100%

PICEA MARIANA (1 X 1M) NODUM (TABLE 8)

M = 63.6% 0 0 1 0 0 0 1 1 0 0 0 11 REL;

C = 36.4% 5 8 1 5 5 3 1 0 5 5 3 58 spp (45% occur only once)

MIKE  
CHARACTERS

39	CHAM	CALY	+	1	1	+	1	1	1	1	1	1	1
156	VACC	OXYC		1	+	+	+	+					1
47	DROS	ROTU	+	+	+	+							+
86	KALM	POLI	+			+	+		+				

NODAL  
DOMINANT

102	PICE	MARI	5	5	5	5	4	5	5	4	5	5	5
-----	------	------	---	---	---	---	---	---	---	---	---	---	---

ASSOCIATES

84	KALM	ANGU	+	1	1	1	2	1	1	1	+	+	1
226	LEPI	REPT	2	+	+	+	+	1	3	2	4	1	

VARIANTS

60	ERIO	SPIS											+	+
120	RUBU	CHAM					1	1						1
239	POHL	SPHA		+		1	+	+					+	1
230	MICR	SETA	+	+	+		+	+					+	
233	ODON	SPHA	2	+	1	1	+	+					+	+
231	MYLI	ANOM	+	+	+	+	+	1					+	
251	SPHA	FUSC	2	1	1	3	1	+						+
199	CLAD	RANG				3	1	3	1	2	1			
237	PLEU	SCHR						1	1	+	4	+	1	1
216	DICR	UNDU	1					2	1	1	1	+		

COMPANIONS

87	LEDU	GROE	+	1	1		1	1	1				+	1
172	CEPH	CONN		+	+	3							+	+
181	CLAD	CHLO	+	1			+	1	+					+
153	VACC	ANGU	+		1	1			1					
69	GAYL	DUMO			1			2						
93	MELA	LINE												+
173	CEPH	MEDI	+		+									
174	CLAD	BACI							+	+				
182	CLAD	CONI			+									+
191	CLAD	GRAC						1	+					
210	DICR	FUSC					+	+						
228	LOPH	ATTE	2					1						
229	LOPH	PORP												+
241	POLY	STRI					1						+	
261	SPHA	RUSS					+							5

32 spp

ALSO (26 spp)

37	CARE	TRIS	876	52	EMPE	NIGR	508	67	GAUL	HISP	1049
70	GEOC	LIVI	508	126	SARR	PURP	381	135	SMIL	TRIF	372
162	AULA	PALU	372	163	BAZZ	TRIL	1177	164	BLEP	TRIC	568
175	CETR	ERIC	530	177	CLAD	ALPE	381	183	CLAD	CORN	1177
184	CLAD	CRIS	1147	186	CLAD	FIMB	1049	189	CLAD	GLAU	1049
207	CLAD	FLUI	381	211	DICR	LEIO	568	214	DICR	POLY	1177
218	DREP	FLUI	876	221	HYLO	SPLE	518	235	PELL	EPIP	876
242	PTIL	CRIS	518	245	RICC	LATI	372	254	SPHA	MAGE	876
256	SPHA	NEMO	518	257	SPHA	PAPI	372				

OMBROTROPHIC = 100%

CHAMAEDAPHNE CALYCVLATA-MYRICA GALE (BOG) NODUM (TABLE 9)

M = 80%

C = 20%

0 0 0 1 0  
 0 4 4 1 6  
 3 0 0 8 5  
 2 2 1 7 7  
 • • • •  
 5 REL,  
 37 SPP (48% OCCUR ONLY ONCE)

MIRE  
 CHARACTERS

85	KALM	POLI	1	+	1	+	+
47	DROS	ROTU		+	+	+	+
262	SPHA	RUBE	1	1	1	+	
156	VACC	OXYC	+			+	1
254	SPHA	MAGE	1		1	1	

NODAL  
 DOMINANTS

39	CHAM	CALY	2	4	4	1	5
95	MYRI	GALE	4			2	

ASSOCIATES

84	KALM	ANGU	2	1	1	1	1
87	LEDU	GROE	1	1	1	1	1
231	MYLI	ANOM	+	+	+	1	
233	ODON	SPHA	1	1	1	1	

VARIANT

172	CEPH	CONN		+			
241	POLY	STRI	+				
251	SPHA	FUSC			+		
86	LARI	LARI					
239	POHL	SPHA					
230	MICR	SETA				1	1
120	RUBU	CHAM		1	+		
153	VACC	ANGU	1	1			

+	+
+	1
2	2
+	+
1	1

COMPANIONS

6	ARON	PRUN	+				
37	CARE	TRIS	1				
44	CORN	CANA	+				
69	GAYL	DUMO				4	
93	MELA	LINE					+
97	NEMO	MUCR					
102	PICE	MARI				+	
103	PINU	BANK		+			
115	RHOD	CANA	1				
126	SARR	PURP	+				
135	SMIL	TRIF					4
137	SOLI	ULIG	+				
145	TRIE	BORE	+				
158	VIBU	CASS					
216	DICR	UNDU				1	
226	LEPI	REPT		+			
248	SPHA	RECU					1
256	SPHA	NEMO	1				

37 SPP

KALMIA ANGUSTIFOLIA-CHAMAECAPHNE CALYCVLATA NODUM (TABLE 10)

Mire (Growth) 1-30

Downlands

Mire (Growth) 31-60

Downlands

Mire (Growth) 61-90

Downlands

Mire (Growth) 91-120

Downlands

Mire (Growth) 121-150

Downlands

Mire (Growth) 151-180

Downlands

Mire (Growth) 181-210

Downlands

Mire (Growth) 211-240

Downlands

Mire (Growth) 241-270

Downlands

Mire (Growth) 271-300

Downlands

	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
	0	2	4	6	4	5	7	5	3	4	3	3	3	2	3	3	4	3	4	4	3	3	7	3			
	2	6	9	4	6	0	0	0	9	0	3	5	3	5	8	5	2	9	2	3	5	5	0	8			
	4	3	8	5	7	1	2	0	4	7	0	8	1	4	0	7	0	2	9	0	5	6	5	2			
	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o			
85	KALM	POLI		1	+	-	+	+	1		+	+	+		+	1	1	1	1		+	+				1	
156	VACC	CXYC		1	+						+	+	+		1	+	1	1		+						1	
47	DRCS	ROTU		-							+	+	+		1	+	+		+							1	
262	SPHA	RUBE		2							+		1	+	3		+	1	+							1	
126	SARR	PURP		+										1		+	1									+	
135	SMIL	TRIF						1			1																
39	CFAM	CALY		1	1	2	2	1	3	1	2	3	1	2	2	1	1	2	2	2	2	1	1	1		1	1
84	KALM	ANGU		3	2	3	5	2	1	5	1	1	2	3	2	3	3	1	2	1	2	3	2	1	+	5	2
87	LEDU	GROE			1	1	1	1	1	+	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1
153	VACC	ANGU			1	1	1	1	1	1	1	+	1	1	1			1	2	+	1	1	1	+	1	1	
233	CDCN	SPHA			+	+		+	1	1	+	1	1	1	2	1	+	2	1	1	1	1	3			1	1
120	RUBU	CHAM					1	1	1	+		1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
199	CLAD	RANG			+	+		+	1	1	2	+	1	1		+	2	+	+	1	1	+	+		+	1	
241	POLY	STRI				+	1	+	3	3	+	+	1	1	1	1		1		1	2	2	1	2	1	1	
184	CLAD	CRIS			+			+	+	+	+		1	+	+	+	+	+	+	1	+	+	2	1	1		
192	CLAD	IMPE						+	1	1	+	+	+	1	+			1	1		1	+				+	
237	PLEU	SCHR		+	3		1	+		+	+		+	+													
102	PICE	MARI			+	+	+	+					2	1	1												
226	LEFI	REPT			+	+	+	+	+		+																
187	CLAD	DEFO								+	1	+	+		+		+	+	1	+	+	2	2				
190	CLAD	GONE									+	+	+	+		+						+	+	+			
232	OCHR	FRIG											1			+	+	+	1			1					
230	MICR	SETA											+	2	+	+	2	+	+							+	
183	CLAD	CORN																					+	+	1	+	
224	LECI	GRAN																					+	1	1	+	
180	CLAD	CENC																					+	+	1		
231	MYLI	ANOM			+	+	+	+	+		1	+		1	+				+	+							+
185	CLAD	CRIT			+			+					+	+	+					+		+	2	1	+	+	
239	POHL	SPHA			+			+	+	+	1	+	+						+								+
172	CEPH	CCNN			+		+	+	+									+	+	+	+					+	+
181	CLAD	CHLO			+	+				+			+	+								+				+	+
216	DICR	UNDU			+	1					+	1		+	1		1	1									+
93	MELA	LINE						+																+	1	+	
177	CLAD	ALPE						+	+	1													+				
191	CLAD	GRAC							+	+													+		+		
210	DICR	FUSC							+		+					1				+							
251	SPHA	FUSC			1											1				1							1
256	SPHA	NEMC					1				+				2											1	
70	GECC	LIVI							+													+					
4	ANCR	GLAU																						+			
86	LARI	LARI																									2
129	SCIR	CESP																				1					1
189	CLAD	GLAU																								1	
211	DICR	LEIC							1																		1
245	RICC	LATI														+											+

ALSC : [unclear]

6	ARCN	PRUN	24	34	CARE	ROST	24	43	COPT	TRIF	498
60	ERIC	SPIS	382	67	GAUL	HISP	498	69	GAYL	DUMC	24
95	MYRI	GALE	1263	97	NEMC	MUCR	1263	115	RHOD	CANA	1263
137	SOLI	ULIG	24	145	TRIE	BORE	1263	154	VACC	BORE	407
158	VIBU	CASS	1263	162	AULA	PALU	645	163	BAZZ	TRIL	498
178	CLAD	ARBU	331	182	CLAD	CONI	645	186	CLAD	FIMB	705
188	CLAD	FURC	356	196	CLAD	PITY	500	204	CLAD	TERR	645
209	DICR	FLAG	394	212	DICR	MAJU	498	218	DREP	FLUI	24
222	HYPN	IMPO	24	261	SPHA	RUSS	498				

OMBROTROPHIC = 100%

POLYTRICHUM STRICTUM NODUM (TABLE 11)

M = 60%

C = 40%

1	1	0	0	0
1	1	5	4	5
9	0	4	5	6
9	3	1	3	4

5 REL;

25 SPP (28% OCCUR ONLY ONCE)

• • •

NODAL DOMINANT AND ASSOCIATE MIRE CHARACTER

39	CHAM	CALY	3	2	1	3	2
156	VACC	OXYC	+	1	1	1	1
47	DROS	ROTU	+	+	+	+	+
254	SPHA	MAGE	1	2	1	2	
262	SPHA	RUBE	2	1		+	+
85	KALM	POLI			1	1	+
58	ERIO	ANGU	+	+			
126	SARR	PURP			1		1
135	SMIL	TRIF	1	3			
248	SPHA	RECU	+	+			

241	POLY	STRI	4	5	5	4	5
84	KALM	ANGU	2	+	1	1	1

VARIANT

87	LEDU	GROE	1	2	+	1	
102	PICE	MARI	1	1	1	2	
239	POHL	SPHA	+	1	1	1	
251	SPHA	FUSC	3	2	+	4	

COMPANIONS

115	RHOD	CANA	1	1			
120	RUBU	CHAM				+	1
37	CARE	TRIS		1			
62	ERIO	VIRG					1
86	LARI	LARI				1	
172	CEPH	CONN				+	
231	MYLI	ANOM				+	
233	ODON	SPHA				+	
237	PLEU	SCHR					+

25 SPP



OMBROTROPHIC = 95% TRANSITION = 5%

SPHAGNUM FUSCUM NODUM (TABLE 13)

Main data table with columns for species codes (e.g., 156 VACC OXYC, 85 KALM POLI, 254 SPHA MAGE) and rows of numerical data points. Includes sub-sections for 'MISC CHARACTERISTICS', 'HABITAT DOMINANTS', 'VARIANT', 'Sub-Dominants', and 'COMPANIONS'.

144 REL; 86 spp (14% occur only once)

156 VACC OXYC
85 KALM POLI
254 SPHA MAGE
262 SPHA RUBE
47 DROS ROTU
126 SARR PURP
248 SPHA RECU
58 ERIO ANGU
135 SMIL TRIF

251 SPHA FUSC
39 CHAM CALY

84 KALM ANGU
87 LEDU GROE

52 EMPE NIGR
129 SCIR CESP
6 ARON PRUN
69 GAYL DUMO
230 MICR SETA
16 CALO PULC
137 SOLI ULIG
199 CLAD RANG
95 MYRI GALE
204 CLAD TERR
83 JUNI COMM
145 TRIE BORE
37 CARE TRIS
67 GAUL HISP
29 CARE OLIG
102 PICE MARI

241 POLY STRI
239 POHL SPHA
60 ERIO SPIS
233 ODON SPHA
120 RUBU CHAM
153 VACC ANGU
4 ANDR GLAU
86 LARI LARI
115 RHOD CANA
231 MYLI ANOM
44 CORN CANA
70 GEOC LIVI
93 HELA LINE
43 COPT TRIF
97 NEMO MUCR
158 VIBU CASS
256 SPHA NEMO
21 CARE EXIL
32 CARE PAUC
62 ERIO VIRG
172 CEPH CONN
178 CLAD ARBU
92 MAIA CANA
96 MYRI PENS
162 AULA PALU
192 CLAD IMPE
216 DICR UNDU
258 SPHA PULC
261 SPHA RUSS
116 RHYN ALBA
171 LOPH MARC
177 CLAD ALPE
207 CLAD FLUI
211 DICR LEIO
257 SPHA PAPI
2 ACER RUBR
11 BETU GLAN
14 CALA PICK
17 CARE AQUA
127 SCHE PALU
154 VACC BORE
185 CLAD CRIT
189 CLAD GLAU
191 CLAD GRAC
237 PLEU SCHR

ALSO: (12 spp)

Summary table with 4 columns of species codes and numbers: 8 ASTE NEMO 244, 68 GAUL PROC 1, 176 CETR ISLA 257, 200 CLAD SQUA 896, 12 BETU PAPY 1108, 100 OSMU CINN 1108, 181 CLAD CHLO 1, 226 LEPI REPT 1042, 33 CARE PAUP 13, 157 VACC VITI 224, 194 CLAD MITI 143, 248 POLY COMM 826

OMBROTROPHIC = 100%

SPHAGNUM FUSCUM=CLADONIA RANGIFERINA NODUM (TABLE 14)

M = 100%

0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	2	2	2	2	1	2	2	1	1	1
9	5	8	7	8	5	9	1	8	7	9	9	9
7	3	2	6	3	8	6	9	5	8	5	4	4

12 REL;

60 SPP (28% OCCUR ONLY ONCE)

MIRE CHARACTERS	47	DROS	ROTU	1	+	+	1	1	1	1	+	+	+	+	+
	156	VACC	OXYC	1	1	+	1	1	1	1	1	1	1	+	1
	85	KALM	POLI	+	+	+	1	+	+	+	+	+	+	1	+
	39	CHAM	CALY	+	+		1	1	+		1	+	+	1	+
	254	SPHA	MAGE	1	2		1	+	1		1	1	1		
	126	SARR	PURP	1	1		+		+		+	+	1	+	
	262	SPHA	RUBE	+			1	1	1		1				2

NODAL CHARACTERS	251	SPHA	FUSC	3	1	3	2	2		3	3	3	1	1	3
	199	CLAD	RANG	1	1	+	1	1	1	1	1	1	1	2	2

ASSOCIATES	52	EMPE	NIGR	2	4	1	2	+	1	2	2	1	2	2	1
	84	KALM	ANGU	2	1	1	1	1	1	2	2	+	1	2	2
	120	RUBU	CHAM	1	1	1	+	+		1	1	1	1	1	1
	233	ODON	SPHA	1	+		1	1	1	1	1	1	1	+	1
	87	LEDU	GROE	1	1	+	1	1		1		1	1	1	1
	137	SOLI	ULIG	+	1	+	+	+		+	+	+	+	+	+
	230	MICR	SETA	+	+		+	1		1	1	1	+	+	+
	241	POLY	STRI	+	1	2	+			1	1	1	1	1	1

VARIANT	192	CLAD	IMPE	1	+	1	1	2	1	2		2	1		
	178	CLAD	ARBU	1	1			1	1	1	3	2		2	
	204	CLAD	TERR	+		3		1					2	1	

SUB-VARIANT	69	GAYL	DUMO	+	+	1	1	2	+	1	2	1			
	129	SCIR	CESP					1	2	1	1	1	+		
	6	ARON	PRUN					1	1	1	1	+	1	+	+
	4	ANDR	GLAU					1	+	+	1				

COMPANIONS	153	VACC	ANGU	+		1	1			+	1	1	+	2	
	83	JUNI	COMM		+	4	1			1		2	+		
	145	TRIE	BORE	+	+	+				+	+	1	+		
	239	POHL	SPHA	+	+		+			+	1	1	+		
	16	CALO	PULC	+	+		+			+		+			
	44	CORN	CANA			+				1	1		+		
	68	GAUL	PROC	+	+					+	+		+		
	86	LARI	LARI							+	1	2	2		
	176	CETR	ISLA					1	1	+		1			
	216	DICR	UNDU				1	+	3					1	
	231	MYLI	ANOM			+				+		+		+	
	237	PLEU	SCHR	1	1	+								+	
43 SPP	43	COPT	TRIF							+	+			+	

ALSO : (7 SPP)

21	CARE	EXIL	258	60	ERIO	SPIS	296	70	GEOC	LIVI	195		
92	MAIA	CANA	82	95	MYRI	GALE	197	97	NEMO	MUCR	296		
157	VACC	VITI	195	158	VIBU	CASS	153	276	172	CEPH	CONN	194	278
177	CLAD	ALPE	195	179	CLAD	BORY	195		181	CLAD	CHLO	119	197
184	CLAD	CRIS	258	283	189	CLAD	GLAU	197		191	CLAD	GRAC	194
194	CLAD	MITI	276		205	CLAD	UNCI	195	283	211	DICR	LEIO	276
245	RICC	LATI	278	296	253	SPHA	IMBR	119		256	SPHA	NEMO	296
258	SPHA	PULC	258		266	SPHA	TENE	283					

SPHAGNUM RUBELLUM-SPHAGNUM NEMOREUM NODUM (TABLE 15)

M = 59.2%  
C = 40.8%

MIRE CHARACTERS

NODUM CHARACTERS

VARIANTS

COMPARISONS

Table with 10 columns of numerical data and 10 rows of species names (156-248) on both sides.

Table with 10 columns of numerical data and 3 rows of species names (262-39) on both sides.

Table with 10 columns of numerical data and 10 rows of species names (153-207) on both sides.

Table with 10 columns of numerical data and 20 rows of species names (233-185) on both sides.

ALSO : (39 spp)

Table listing 39 species names and their corresponding numbers.

130 REL.  
107 SPP (36%  
OCCUR ONLY ONCE)

262 SPHA RUBE  
256 SPHA NEMO  
39 CHAM CALY

153 VACC ANGU  
241 POLY STRI  
93 MELA LINE  
239 POHL SPHA  
29 CARE OLIG  
21 CARE EXIL  
14 CALA PICK  
137 SOLI ULIG  
3 ALNU RUGO  
8 ASTE NEMO  
33 CARE PAUC  
60 ERIO SPIS  
230 MICR SETA  
129 SCIR CESP  
207 CLAD FLUI  
116 RHYN ALBA

233 ODON SPHA  
84 KALM ANGU  
4 ANDR GLAU  
251 SPHA FUSC  
87 LEDU GROE  
120 RUBU CHAM  
62 ERIO VIRG  
231 MYLI ANOM  
6 ARON PRUN  
95 MYRI GALE  
257 SPHA PAPI  
102 PICE MARI  
258 SPHA PULC  
52 EMPE NIGR  
86 LARI LARI  
115 RHOD CANA  
16 CALO PULC  
199 CLAD RANG  
69 GAYL DUMO  
32 CARE PAUC  
211 DICR LEIO  
26 CARE LIMO  
127 SCHE PALU  
155 VACC MACR  
172 CEPH CONN  
37 CARE TRIS  
45 DROS ANGL  
178 CLAD ARBU  
247 SPHA CUSP  
266 SPHA TENE  
36 CARE STRI  
70 GEOC LIVI  
97 NEMO MUCR  
216 DICR UNDU  
5 ARET BULB  
13 CALA CANA  
53 EPIL PALU  
145 TRIE BORE  
176 CETR ISLA  
184 CLAD CRIS  
185 CLAD CRIT





M = 55.2%  
 O = 44.8%

CHAM CALY	4 1 + 4 2 5 5 5 3 5 1 2 2 4 1 1	1 1 - + 1 1 + 1 + 3 + 1 1 + 2	3 + 2 1 1 1 1 2 1 + 1 +	1 1 1 1 3 - 1 2 1 1	1 + + 1 + +
VACC OXYC				1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1
DRCS ROTU					
SPHA MAGE	1	1			
KALM POLI	2	1			
SARR PURP					
SPHA RUBE					
ERIO ANGU					
SMIL TRIF					
SPHA RECU					

  

CLAD FLUI	1	5 1 + - + 3	1 2 1 4 1 + 5 5 1 3 1 5	2 1 1 1 1 4 3 1 3 + 5 1 + 4 1 2 4 4	1 5 4 2 1 2 5 5	4	1 4 2 4 + 1 + 1 2 + 3
RHYN ALBA		- - 1	+ 2 + 2 3 1 3 1 + 1 2 2 1 2 + 1 2 2	3 + 1 3 1 2 2 1 + 1 1 1	1 1 1 1 1 3 +	3 3 2	1 + 1 1 1 + 1
NUPH VARI							
SCHE PALU		3	1 1	2			2 3 2 1 2 2 1
CARE OLIG							
ERIO TENE							

  

MYRI GALE									
CARE LASI									
VACC MACR	3 4 +	5 5 3 2	5 3	1					
ANDR GLAU		2 1 ++	2 1	1 1 2 1					
ERIC VIRG		+	1 1 +	+					
DRCS INTE		1 +	-	1 ++ + 1 +	1				
DRCS ANGL				2	1 1	2 +	1 1	1 +	1 1

  

CARE LIMC		1		2	1	1	1 + 1 1	1 2 1 3 1			
DREP EXAN			1 3						1	1 2 1	
CARE PAUP	2 1 1		2	1			1 1	3 2 2			
SPHA PULC				1							
DREP FLUI											
ERIC SPIS								1 3 2		1 2 2	
SPHA PAPI											
MENY TRIF											
JUNC PELO											
UTRI CORN											
SPHA MAJU											
CARE CANE											
CARE STRI											
JUNC BREV											
UTRI GEMI											
SPHA TENE											

116 REL;  
 53 SPP (24% OCCUR ONLY ONCE)

39	CHAM CALY
156	VACC OXYC
47	DRCS RCTU
254	SPHA MAGE
85	KALM POLI
126	SARR PURP
262	SPHA RUBE
3 58	ERIC ANGU
135	SMIL TRIF
248	SPHA RECU
5 247	SPHA CUSP
207	CLAD FLUI
116	RHYN ALBA
98	NUPH VARI
127	SCHE PALU
29	CARE OLIG
61	ERIC TENE
95	MYRI GALE
25	CARE LASI
155	VACC MACR
4	ANDR GLAU
62	ERIC VIRG
46	DRCS INTE
45	DRCS ANGL
26	CARE LIMC
217	DREP EXAN
33	CARE PAUP
258	SPHA PULC
218	DREP FLUI
60	ERIC SPIS
257	SPHA PAPI
94	MENY TRIF
280	JUNC PELO
147	UTRI CORN
255	SPHA MAJU
20	CARE CANE
36	CARE STRI
78	JUNC BREV
148	UTRI GEMI
266	SPHA TENE

ALSO : 13 spp

2	ACER RUER	1286
21	CARE EXIL	136
57	ERIC SEPT	1288
131	SCIR SUBT	428
286	SAGI CUNE	1286
8	ASTE NEMO	1282
50	DULI ARUN	1286
73	HYPE VIRG	1286
138	SPAR ANGU	28
19	CARE BULL	47
55	EQUI FLUV	1286
76	IRIS VERS	1283
259	SPHA PYLA	1255

TRANSITION = 100%<sub>10</sub>

SPHAGNUM MAJUS NODUM (TABLE 19)

M = 75%

C = 25%

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	1	1	1	7	7	3	3	5	3	3	6	8	8	1	6
2	5	6	5	2	2	1	1	8	1	1	1	2	2	6	3
8	7	2	8	7	4	1	7	3	4	6	6	4	5	5	9
•	•	•	•			•	•	•	•	•	•			•	•

16 REL;

31 SPP (26% OCCUR ONLY ONCE)

MIRE CHARACTERS

156	VACC OXYC	+	+	-	-											1	2
47	DRCS RGTU	+	+	+				-									+
39	CHAM CALY																+ 1
126	SARR PURP		+														+

NODAL DOMINANT

255	SPHA MAJU	5	4	5	5	5	5	5	5	4	5	5	5	5	5	5	4
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VARIANTS

94	MENY TRIF	5	3	3	1	1	+										+
127	SCHE PALU				1	1	1	1	1	2							1
26	CARE LIMC				1	1	1	2									1
29	CARE GLIG																2 + 1 2 2

COMPANIONS

33	CARE PAUP				1	1					1						1
116	RHYN ALBA	1			1	+	1										1
258	SPHA PULC	1			1	1				1							2
78	JUNC BREV	+							+		1	3					
4	ANDR GLAU	+									-						+
207	CLAC FLUI	1			2											2	
20	CARE CANE		+		+												
25	CARE LASI					1				1							
46	DRCS INTE									-						1	
50	DULI ARUN								1		1						
61	ERIO TENE								+							1	
95	MYRI GALE										1	-					
218	DREP FLUI									1							+
257	SPHA PAPI																
8	ASTE NEMO																1
17	CARE AQUA																3
38	CARE VESI																3
76	IRIS VERS																+
135	SMIL TRIF																1
148	UTRI GEMI											1					
247	SPHA CUSP									1							
254	SPHA MAGE																1

31 SPP









OMBROTROPHIC = 50%    RHOTROPHIC = 50%

SPHAGNUM RUSSOWII NODUM (TABLE 24)

M = 50%    C = 50%    4 REL;    39 spp (59% OCCUR ONLY ONCE)

1	0	1	1
0	8	2	2
7	1	0	1
3	5	5	2
0	0		

MIRE CHARACTERS

39	CHAM CALY	2	1	1
262	SPHA RUBE	1	1	1
85	KALM POLI		1	1
126	SARR PURP		1	+
156	VACC OXYC		1	1
254	SPHA MAGE	1	+	

NODAL DOMINANT ASSOCIATES

261	SPHA RUSS	5	4	5	5
95	MYRI GALE	5	2	2	1
87	LEDU GROE	1	1	1	

VARIANTS

3	ALNU RUGO	1	1	
13	CALA CANA	1	1	
141	SPIR LATI	1	1	
161	VIOL PALL	+	+	
84	KALM ANGU			1 1
120	RUBU CHAM			2 1

COMPANIONS

4	ANDR GLAU	1		1
6	ARON PRUN			+
24	CARE INTE	+		
34	CARE ROST	+		
36	CARE STRI	+		
47	DROS ROTU		+	
48	DRYO CRIS	1		
52	EMPE NIGR		1	
58	ERIO ANGU		1	
60	ERIO SPIS		+	
69	GAYL DUMO			2
71	GLYC CANA	+		
76	IRIS VERS	+		
90	LYCO UNIF	1		
91	LYSI TERR		+	
115	RHOD CANA			1
129	SCIR CESP			1
142	SPIR TOME	1		
153	VACC ANGU			+
239	POHL SPHA		+	
251	SPHA FUSC			+
257	SPHA PAPI	1		
267	SPHA PLAT	+		
276	EPIL LEPT	+		

39 spp





RHEOTROPHIC = 100%<sub>6</sub>

SPHAGNUM WARNSTORFII NODUM (TABLE 27)

C = 100% 

6	0	0
9	9	9
6	6	6
1	2	6

 3 REL;  
3 OSPP (46% OCCUR ONCE ONLY)

MISS CHARACTER

39 CHAM CALY 1 1

NOORL DOMINANT

243 SPFA WARN 5 5 5  
95 MYRI GALE 3 4 3

ASSOCIATES

6 ARON PRUN 1 1 1  
36 CARE STRI 1 2 1  
64 GALI PALU - + +  
87 LEDU GROE 1 1 1  
89 LCNI VILL - 1 1  
141 SPIR LATI + 1 1  
143 THAL POLY 1 1 1  
272 ASTE BCRE 1 + 2

COMPANIONS

13 CALA CANA + +  
102 PICE MARI - +  
118 RECA NITI + 1  
122 RUBU PUBE 1 -  
162 AULA PALU 1 +  
3 ALNU RUGO 1  
4 ANDR GLAU 1  
10 ASTE RADU 1  
37 CARE TRIS 1  
86 LARI LARI -  
114 RHAM ALNI 2  
137 SOLI ULIG +  
149 VIOL INCO 1  
158 VIBU CASS +  
159 VIOL BLAN 1  
161 VIOL FALL 1  
170 CAMP STEL +  
282 MUHL GLOM 1  
285 RIBE HIRT 1

30 SPP



RHEOTROPIC = 82%

TRANSITION = 18%

SPHAGNUM FIMBRIATUM NODUM (TABLE 28)

M = 100%

0	0	0	0	0	0	0	0	0	0	0
1	4	4	1	1	4	4	4	4	4	4
0	9	9	7	7	8	8	9	8	9	8
1	4	3	4	3	2	3	5	7	1	5
0	0	0	0	0	0	0	0	0	0	0

11 REL;

42 SPP (47% OCCUR ONLY ONCE)

MIRE CHARACTER	47	DRGS	ROTU	+	1	+	1	+	1	1		
	156	VACC	CXYC		1	+			2	2	1	1
	39	CHAM	CALY	1	4	4					3	
	262	SPHA	RUBE				+	+				

MODAL DOMINANT	249	SPHA	FIMB	5	5	5	4	5	5	5	5	5	5
----------------	-----	------	------	---	---	---	---	---	---	---	---	---	---

VARIANT	95	MYRI	GALE	1	1	+	1	2	2	1	4	+		
	33	CARE	PAUP	1	1	+	-	1	1	1	1			
	30	CARE	PALE					3	3	1	2	1	1	1
	73	HYPE	VIRG						1	1	+	2	+	1

SUB-VARIANT	76	IRIS	VERS										1	+	-
	13	CALA	CANA											+	1
	20	CARE	CANE											1	2
	52	EMPE	NIGR												
	116	RHYN	ALBA												
	155	VACC	MACR												
	4	ANCR	GLAU												
	8	ASTE	NEMO												
	16	CALO	PULC												
	129	SCIR	CESP												

COMPANIONS	168	CALL	STRA	+	+	+	+	+	+
	91	LYSI	TERR	-				1	
	260	SPHA	RIPA		1				+

22 SPP

ALSO : (20 SPP)

6	ARCN	PRUN	174	15	CALL	PALU	491	36	CARE	STRI	131
46	CRCS	INTE	174	53	EPIL	PALU	487	77	JUNC	BALT	483
80	JUNC	FILI	487	112	POTE	PALU	495	113	PREN	TRIF	173
115	RFOC	CANA	131	141	SPIR	LATI	131	161	VIOL	PALL	494
162	AULA	PALU	173	178	CLAD	ARBU	174	207	CLAD	FLUI	174
217	CREP	EXAN	487	218	DREP	FLUI	131	248	SPHA	RECU	131
257	SPHA	PAPI	131	264	SPHA	SQUA	485				

□ RHEOTROPHIC = 100%

ALNUS RUGOSA (4 X 4M) NODUM (TABLE 29)

o M = 86%

0	0	1	0	0	0	0
1	3	1	2	4	4	9
3	9	5	0	8	8	8
0	6	2	3	4	9	4

7 REL;

C = 14%

4 SPP (50% OCCUR ONLY ONCE)

NODAL  
DOMINANT  
VARIANT

3 ALNU RUGO 5 5 5 3 4 5 3

95 MYRI GALE 

3	2	4
---	---	---

COMPANIONS

86 LARI LARI 3  
141 SPIR LATI 1

4 SPP

RHEOTROPHIC = 57%   
  TRANSITION = 14%   
  OMBROTROPHIC = 29%  
 DREPANOCLADUS EXANNULATUS-DREPANOCLADUS FLUITANS NODUM (TABLE 30)

M = 57.1%  
 C = 42.9%

0	1	0	0	0	1	0
7	0	5	4	4	0	9
5	1	2	8	8	6	8
3	3	4	1	3	9	2

7 REL;  
 38 SPP (63% OCCUR ONLY ONCE)

MIRE CHARACTER

156	VACC	EXYC	1	1	1
47	DRCS	RCTU	+	+	

NODAL DOMINANTS

217	DREP	EXAN	3	5	4	3	5
218	DREP	FLUI	5	5			

VARIANTS

73	HYPE	VIRG			1	1	1
91	LYSI	TERR			1		2
20	CARE	CANE				+	1
30	CARE	PALE			2	3	
207	CLAD	FLUI	1	3	4		
116	RHYN	ALBA			1	2	
4	ANDR	GLAU	3	+			
26	CARE	LIMG	1	1			
255	SPHA	MAJU	1		1		

COMPANIONS

33	CARE	PAUP			1	2	1	
15	CALL	PALU						5
34	CARE	RCST						4
39	CHAM	CALY	1					
40	CICU	BULB						1
45	DRCS	ANGL		1				
50	DLLI	ARUN						1
55	EQUI	FLUV						+
66	GALI	TRIF						+
76	IRIS	VERS				+		
77	JUNC	BALT				+		
79	JUNC	BUFC						1
90	LYCO	UNIF						+
95	MYRI	GALE					-	
127	SCHE	PALU	1					
134	SIUM	SUAV						+
168	CALL	STRA				1		
230	MICR	SETA	1					
247	SPHA	CUSP		1				
254	SPHA	MAGE			1			
260	SPHA	RIPA						1
262	SPHA	RUBE				+		
267	SPHA	PLAT						1
278	HYCR	AMER						1
279	HYPE	BORE						1

38 SPP

RNEOTROPHIC = 50%    TRANSITION = 30%     OMBROTROPHIC = 20%  
 SPHAGNUM IMBRICATUM NODUM (TABLE 31)

M = 70%  
 C = 30%

0	0	0	0	0	0	0	1	1	1
0	1	1	1	0	1	1	2	2	2
6	9	8	8	6	2	2	2	2	2
4	0	7	9	5	4	7	8	5	3

10 REL,  
 67 SPP (39% OCCUR ONLY ONCE)

MIRE CHARACTERS

156	VACC	CXYC	+		+	+	+	+	1	1			
126	SARR	PURP							+	1			
39	CHAM	CALY							+	2	2	4	
47	DRCS	RGTU							+	+	+		
85	KALM	POLI							1	+			
248	SPHA	RECU									1	+	2
58	ERIC	ANGU							-				+
135	SMIL	TRIF									1	-	
254	SPHA	MAGE										+	1
262	SPHA	RUBE							+	+			

NODAL DOMINANT

253	SPFA	IMBR	5	5	5	5	5	5	5	5	5	5	4
-----	------	------	---	---	---	---	---	---	---	---	---	---	---

VARIANTS

86	LARI	LARI								1	1	+	+	
29	CARE	GLIG										+	+	2
115	RHOE	CANA											+	4
13	CALA	CANA								1	1	1	1	
137	SOLI	ULIG	+	+	+	+	+	+						
141	SPIR	LATI								-	+	+		
8	ASTE	NEMO								1	1	1		
17	CARE	AQUA								1	+	1		
20	CARE	CANE								+	+	+		
49	DRYC	THEL										1	1	
76	IRIS	VERS								-	+			
25	CARE	LASI								+	+			
6	ARCN	PRUN								2	+	-		
52	EMPE	NIGR								1	2	1		
241	POLY	STRI								2	1	1		
16	CALO	PULC									-	+		
69	GAYL	DUMG									1	2		
83	JUNI	CCMM									1	1		
84	KALM	ANGU									1	1		
192	CLAD	IMPE									1	1		
199	CLAD	RANG									1	+		
230	MICR	SETA									1	+		
233	ODCN	SPFA									1	+		
251	SPHA	FUSC									+	1		

ALSO : (26 SPP)

2	ACER	RUBR	124	3	ALNU	RUGC	1225	23	CARE	FGLL	190
28	CARE	NIGR	64	33	CARE	PAUP	65	54	EQUI	ARVE	65
60	ERIC	SPIS	127	65	GALI	TINC	189	68	GAUL	PROC	127
77	JUNC	BALT	64	87	LEDU	GRDE	65	90	LYCO	UNIF	189
91	LYSI	TERR	187	101	CSMU	REGA	190	118	ROSA	NITI	190
120	RUBU	CHAM	124	129	SCIR	CESP	124	142	SPIR	TOME	190
143	THAL	FELY	190	153	VACC	ANGU	124	162	AULA	PALU	65
166	BRYH	NOVA	65	170	CAMP	STEL	65	186	CLAD	FIMB	124
220	HELC	BLAN	65	249	SPHA	FIMB	64				

COMPANIONS

4	ANCR	GLAU									1	3	
53	EPIL	PALU	+		+								
89	LONI	VILL	1							1			
95	MYRI	GALE				1							2
112	PGTE	PALU	2							2			
160	VIOL	CUCU	+							1			

41 SPP

OMBROTROPHIC - 100%

JUNIPERUS COMMUNIS VARIANT (TABLE 33)

M = 100%

0 0 0 0 0 0 0 0  
 0 1 1 0 2 1 1 1 8 REL;  
 0 4 8 3 2 3 2 2 51 SPP (27% OCCUR ONLY ONCE)  
 1 6 0 3 4 2 4 7  
 • • • • • • • •

MIRE DIFFERENTIAL CHARACTERS	156	VACC	OXYC	1	1	1	1	1	1	+	+
	39	CHAM	CALY	1	1	1	+	+	+		+
	47	DROS	ROTU	1		1	1	+	+	+	
	85	KALM	FCLI		1		+	+	+	1	+
	126	SARR	PURP	+	+		+	+		+	+
	254	SPHA	MAGE		+	3		+			
262	SPHA	RUBE		+			+		+	+	
Disease Limited ASSOCIATES	83	JUNI	COMM	1	1	+	+	+	2	1	1
	52	EMPE	NIGR	4	1	2	5	3	1	2	1
	84	KALM	ANGU	1	2	1	2	1	2	1	1
	241	POLY	STRI	+	+	1	1	1	1	1	1
	251	SPHA	FUSC	5	5	5	4	5	5	+	1
	6	ARCN	PRUN	1	1	+	+	1		1	+
16	CALO	PULC	+		+	+	+	+	-	+	
120	RUEU	CHAM	1	1	2	3	1	1	1		
137	SCLI	ULIG	-	+	+	+	+	+	+		
199	CLAD	RANG	1	1	+		2	1	1	+	
SUB-VARIANTS	69	GAYL	CUMD	+	1					1	2
	253	SPHA	IMER							5	5
	192	CLAD	IMPE						1	1	1
	230	MICR	SETA				1	1	+	1	+
	233	ODCN	SPHA			+	2	2	+	1	+
	87	LEDU	GRÖE	1	+	1	2	1	1		
115	RHOD	CANA			+	+	+				
COMPANIONS	60	ERIG	SPIS		1	1	-	-			+
	153	VACC	ANGU	1	+		+	1			+
	95	MYRI	GALE	+		1	+				
	129	SCIR	CESP		-						1
	145	TRIE	BORE			+		+	+		
	239	PCHL	SPHA			+		1	1		
	43	COPT	TRIF		+			+			
	44	CORN	CANA			+	+				
	68	GAUL	PRGC		+						+
	86	LARI	LARI		1						1
178	CLAD	ARBU			1			1			
191	CLAD	GRAC			+			+			
204	CLAD	TERR		1			1				

ALSC : (14 SPP)

2	ACER	RUER	124	4	ANDR	GLAU	127	14	CALA	PICK	1
58	ERIO	ANGU	127	70	GECC	LIVI	224	157	VACC	VITI	224
158	VIBU	CASS	146	177	CLAD	ALPE	33	181	CLAD	CHLG	1
185	CLAD	CRIT	1	186	CLAD	FIMB	124	216	DICR	UNDU	224
231	MYLI	ANCM	33	237	PLEU	SCHR	132				

37 SPP

OMBROTROPHIC = 67% TRANSITION = 33%

LARIX LARICINA VARIANT (TABLE 34)

M = 55.6%

C = 44.4%

0	1	0	0	0	0	1	1	1
6	1	2	2	1	1	2	2	2
5	8	7	8	1	2	2	2	2
7	7	8	5	9	7	8	5	3

9 REL;

49 SPP (18% OCCUR ONLY ONCE)

• • • • •

39	CHAM	CALY	5	1	+	1	+	2	2	4	
156	VACC	OXYC	1	+	1	1	1	+	1	1	
47	DRCS	ROTU	+	+	+	+	+	+			
85	KALM	FCLI	+	+	+	+	+	+			
254	SPHA	MAGE	1	1	1	1			+	1	
126	SARR	PURP			+	+			+	1	
248	SPHA	RECU		1					1	+	2
262	SPHA	RUBE	+	1			1	+			
135	SMIL	TRIF	4						1	-	
58	ERIO	ANGU							-		+

86	LARI	LARI	+	+	2	2	1	1	1	+	+
----	------	------	---	---	---	---	---	---	---	---	---

84	KALM	ANGU	1	1	1	+	2	1					
233	ODCN	SPHA	1	1	1	1	1	+					
241	POLY	STRI	1	+	1	1	1	1					
251	SPHA	FUSC	2	2	1	3	3	1					
230	MICR	SETA	1	+	1	1	+						
4	ANDR	GLAU							1	1	3		
253	SPHA	IMBR							1	5	5	5	4
29	CARE	CLIG								+	+	2	
115	RHOC	CANA								+	4		

6	ARCN	PRUN	+	1	+	+				
52	EMPE	NIGR	2	1	2	1				
199	CLAD	RANG	1	1	1	+				
192	CLAD	IMPE	1	2		1				
83	JUNI	COMM	2		-	1				
43	COPT	TRIF			+	+				
129	SCIR	CESP			+	1				
178	CLAD	AREU				2	3			
120	RUBU	CHAM	1	1	1					
137	SOLI	ULIG	+	+						
145	TRIE	BORE	1	+						
153	VACC	ANGU	1	1						
87	LEDU	GRGE	1	1	1	1				
239	PCHL	SPHA	1	1	1	1				
172	CEPH	CCNN	+	+	+					

68	GAUL	PROC				+	+			
69	GAYL	DUNC	4		1	2	2			
16	CALO	PULC			+		+			
95	MYRI	GALE	2							2
231	MYLI	ANCM	1	+						

40 SPP

ALSO: (9 SPP)

3	ALNU	RUGO	1225	44	CORN	CANA	285	60	ERIO	SPIS	127
93	MELA	LINE	657	102	PICE	MARI	1187	176	CETR	ISLA	278
181	CLAD	CHLO	119	204	CLAD	TERR	278	245	RICC	LATI	278

OMROTROPHIC = 50%      TRANSITION = 50%  
 RHODODENDRON CANADENSE VARIANT (TABLE 35)

C = 100%

1	1	1	1
1	1	2	2
0	5	2	2
3	5	5	8

4 REL;  
 22 SPP (36% OCCUR ONLY ONCE)

MIRE CHARACTERS	39	CHAM CALY	2	3	2	2	
	135	SMIL TRIF	3	1	-	1	
	248	SPHA RECU	+	+	+	1	
	254	SPHA MAGE	2	1	1	+	
	156	VACC OXYC	1	+	1		
	58	ERIC ANGU	+	+			
	262	SPHA RUBE	1	2			
	126	SARR PURP			1	+	
	DIFFERENTIAL	115	RHCD CANA	1	1	4	+
SUB-VARIANTS	29	CARE OLIG			+	+	
	86	LARI LARI			+	1	
	253	SPHA IMBR			5	5	
	84	KALM ANGU	+	2			
	241	PCLY STRI	5	4			
COMPANIONS	3	ALNU RUGC			1		
	4	ANDR GLAU				3	
	47	DRCS RCTU	+				
	87	LEDU GRCE	1				
	95	MYRI GALE				2	
	102	PICE MARI	1				
	239	POHL SPHA	+				
251	SPHA FUSC	3					

22 SPP



OMBROTROPHIC = 94% RHOTROPHIC = 2% TRANSITION = 4%  
VACCINIUM ANGSTIFOLIUM VARIANT (TABLE 37)

MixE  
CHARACTERS  
39 CFAM CALY  
85 KALM POLI  
156 VACC CXYC  
262 SFHA RUBE  
47 DRCS RCTU  
135 SMIL TRIF  
126 SARR PURP  
254 SFHA MAGE  
58 ERIO ANGU  
248 SFHA RECU

113 REL)  
123 SPP (19% OCCUR ONLY ONCE)  
39 CHAM CALY  
85 KALM POLI  
156 VACC CXYC  
262 SFHA RUBE  
47 DRCS RCTU  
135 SMIL TRIF  
126 SARR PURP  
254 SFHA MAGE  
58 ERIO ANGU  
248 SFHA RECU

DIFFERENTIAL  
AND VARIANTS  
153 VACC ANGU  
84 KALM ANGU  
87 LEDU GRCE

153 VACC ANGU  
84 KALM ANGU  
87 LEDU GROE

COMPARISONS  
187 CLAD DEFO  
190 CLAD GCNE  
226 LEPI REPT  
210 DICR FUSC  
258 SFHA PULC  
36 CARE STRI  
205 CLAC UNCI  
145 TRIE BORE  
178 CLAD ARBU  
6 ARCN PRUN  
52 EMPN NIGR  
177 CLAD ALPE  
199 CLAD RANG

187 CLAD DEFO  
190 CLAD GCNE  
226 LEPI REPT  
210 DICR FUSC  
258 SFHA PULC  
36 CARE STRI  
205 CLAD UNCI  
145 TRIE BORE  
178 CLAD ARBU  
6 ARCN PRUN  
52 EMPN NIGR  
177 CLAD ALPE  
199 CLAD RANG

120 RUEU CHAM  
233 ODCN SPHA  
241 POLY STRI  
192 CLAD IMPE  
184 CLAD CRIS  
216 DICR UNDU  
237 PLEU SCFR  
231 MYLI ANOM  
181 CLAD CHLO  
102 PICE MARI  
230 MCCR SETA  
239 POHL SPHA  
251 SPHA FLSC  
172 CEPH CONN  
93 MELA LINE  
97 NEMO MUCR  
43 COPT TRIF  
115 RHCC CANA  
185 CLAD CRIT  
158 VIEU CASS  
191 CLAD GRAC  
44 CORN CANA  
256 SPHA NEMO  
70 GECC LIVI  
129 SCIR CESP  
137 SCLI ULIG  
186 CLAD FIMB  
95 MYRI GALE  
183 CLAD CORN  
37 CARE TRIS  
67 GAUL HISP  
86 LARI LARI  
189 CLAD GLAU  
204 CLAD TERR  
60 ERIO SPIS  
68 GAUL PRCC  
69 GAYL DUMC  
182 CLAD CCNI  
232 OCHR FRIG  
261 SPHA RUSS  
163 FAZZ TRIL  
213 DICR MCNT  
224 LECI GRAN  
4 ANDR GLAU  
83 JUNI CCMY  
157 VACC VITI  
179 CLAD BORY  
180 CLAD CENO  
196 CLAD PITI  
214 DICR POLY  
268 TETR PELL  
1 ABIE BALS  
194 CLAD MITI  
200 CLAD SQUA  
242 PTIL CRIS  
245 RICC LATI  
3 ALNU RUGG  
20 CARE CANE  
29 CARE OLIG  
92 MAIA CANA  
103 PINU BANK  
154 VACC BORE  
162 ALLA PALU  
175 CETR ERIC  
176 CETR ISLA  
193 DICR DRUM  
211 DICR LEIG  
212 DICR MAJU  
215 DICR SCOP  
222 HYPN IMPC  
236 FLAG LAET  
253 SPHA IMBR  
263 HYPN PHYS

120 RUEU CHAM  
233 ODCN SPHA  
241 POLY STRI  
192 CLAD IMPE  
184 CLAD CRIS  
216 DICR UNDU  
237 PLEU SCFR  
231 MYLI ANCM  
181 CLAD CHLO  
102 PICE MARI  
230 MCCR SETA  
239 POHL SPHA  
251 SPHA FUSC  
172 CEPH CONN  
93 MELA LINE  
97 NEMO MUCR  
43 COPT TRIF  
115 RHCC CANA  
185 CLAD CRIT  
158 VIEU CASS  
191 CLAD GRAC  
44 CORN CANA  
256 SPHA NEMO  
70 GECC LIVI  
129 SCIR CESP  
137 SCLI ULIG  
186 CLAD FIMB  
95 MYRI GALE  
183 CLAD CORN  
37 CARE TRIS  
67 GAUL HISP  
86 LARI LARI  
189 CLAD GLAU  
204 CLAD TERR  
60 ERIO SPIS  
68 GAUL PRCC  
69 GAYL DUMC  
182 CLAD CCNI  
232 OCHR FRIG  
261 SPHA RUSS  
163 BAZZ TRIL  
213 DICR MCNT  
224 LECI GRAN  
4 ANDR GLAU  
83 JUNI CCMY  
157 VACC VITI  
179 CLAD BORY  
180 CLAD CENO  
196 CLAD PITI  
214 DICR POLY  
268 TETR PELL  
1 ABIE BALS  
194 CLAD MITI  
200 CLAD SQUA  
242 PTIL CRIS  
245 RICC LATI  
3 ALNU RUGG  
20 CARE CANE  
29 CARE CLIG  
92 MAIA CANA  
103 PINU BANK  
154 VACC BORE  
162 ALLA PALU  
175 CETR ERIC  
176 CETR ISLA  
193 DICR DRUM  
211 DICR LEIC  
212 DICR MAJU  
215 DICR SCOP  
222 HYPN IMPC  
236 FLAG LAET  
253 SPHA IMBR  
263 HYPN PHYS

99 SPP  
ALSC : (2k SPP)

8 ASTE NEMO	191	17 CARE AQUA	191	32 CARE PAUC	90
33 CARE PAUP	692	42 CLIN BORE	27	48 DRYO CRIS	69
62 ERIO VIRG	1239	96 MYRI PENS	257	119 ROSA VIRG	69
122 RUBU PUBE	191	141 SPIR LATI	69	160 VIOL CUCU	69
165 BAEQ ROSE	1244	173 CEPH MEDI	54	188 CLAD FURC	356
202 CLAD SUBS	667	206 CLAD VERT	148	208 CORN ACUL	279
209 DICR FLAG	394	221 HYLO SPLE	277	227 LOPH HETE	397
238 PCHL NUTA	850	240 POLY CCMY	805	281 LYCO ANNO	1244



OMBROTROPHIC = 97%

TRANSITION = 2%

RHEOTROPHIC = 1%

EMPETRUM NIGRUM VARIANT (TABLE 39)

M = 100%

Grid of numbers (0-9) representing data points for various species and characters.

85 REL, 105 SPP (26% OCCUR ONLY ONCE)

MIRE CHARACTERS

Table listing Mire Characters (85, 39, 156, 47, 262, 126, 254, 135, 58) and their corresponding species.

Main data grid for Mire Characters, showing presence (+) or absence (-) of characters in various species.

Table listing Mire Characters (85, 39, 156, 47, 262, 126, 254, 135, 58) and their corresponding species.

DIFFERENTIAL RHP SPECIES

Table listing Differential RHP Species (52, 84, 87).

Main data grid for Differential RHP Species, showing presence (+) or absence (-) of species in various species.

Table listing Differential RHP Species (52, 84, 87).

SUB-VARIANTS

Table listing Sub-Variants (253, 241, 251, 233, 137, 16, 116, 8, 30, 155, 249, 192, 178, 177).

Main data grid for Sub-Variants, showing presence (+) or absence (-) of variants in various species.

Table listing Sub-Variants (253, 241, 251, 233, 137, 16, 116, 8, 30, 155, 249, 192, 178, 177).

COMPARISONS

Table listing Comparisons (120, 199, 153, 6, 230, 129, 69, 145, 239, 83, 204, 60, 216, 4, 231, 44, 95, 237, 68, 86, 43, 102, 115, 181, 205, 191, 158, 184, 21, 70, 96, 176, 256, 97, 179, 186, 194, 211, 33, 52, 93, 157, 172, 189, 207, 245, 162, 185, 226, 257, 14, 175).

Main data grid for Comparisons, showing presence (+) or absence (-) of comparisons in various species.

Table listing Comparisons (120, 199, 153, 6, 230, 129, 69, 145, 239, 83, 204, 60, 216, 4, 231, 44, 95, 237, 68, 86, 43, 102, 115, 181, 205, 191, 158, 184, 21, 70, 96, 176, 256, 97, 179, 186, 194, 211, 33, 52, 93, 157, 172, 189, 207, 245, 162, 185, 226, 257, 14, 175).

ALSO : (27 spp)

Table listing 27 species (ACER RUER, CARE CANE, DRCS INTE, LCAI VILL, SPIR LATI, BRYF NOVA, CLAD CGNI, CORN ACUL, SPHA PULC, CALA CANA, CARE PAUC, CRYO T-HEL, POTE PALU, VACC BORE, CALL STRA, CLAD DEFG, DICR MONT, HYPO PHYS, CARE AQUA, CARE TRIS, EQUI ARVE, PREN TRIF, BAZZ TRIL, CAMP STEL, CLAD SUBS, HELD BLAN, SPHA TENE).

M = 85.4%

C = 14.6%

41 RES  
82 SPP  
(16% OCCUR ONLY ONCE)

MIRE CHARACTERS

85 KALM POLI  
156 VACC OXYC  
262 SPHA RUBE  
39 CHAM CALY  
47 DRCS ROTU  
126 SARR PURP  
254 SPHA MAGE  
58 ERIC ANGU  
135 SMIL TRIF

Table with 30 columns and 10 rows of numerical data corresponding to the MIRE CHARACTERS.

Differential and Associates

69 GAYL DUMC  
84 KALM ANGU

Table with 30 columns and 2 rows of numerical data corresponding to the Differential and Associates.

Sub-Variants

253 SPHA IMBR  
137 SOLI ULIG  
241 POLY STRI  
251 SPHA FUSC  
52 EMPE NIGR  
199 CLAD RANG  
192 CLAD IMPE  
178 CLAD ARBU

Table with 30 columns and 8 rows of numerical data corresponding to the Sub-Variants.

Companions

6 ARCN PRUN  
233 ODCN SPHA  
87 LECU GROE  
230 MICR SETA  
129 SCIR CESP  
120 RUBU CHAM  
153 VACC ANGU  
4 ANDR GLAU  
83 JUNI COMM  
16 CALO PULC  
204 CLAD TERR  
86 LARI LARI  
145 TRIE BORE  
60 ERIO SPIS  
184 CLAD CRIS  
216 DICR UNDU  
43 COPT TRIF  
68 GAUL PROC  
181 CLAD CHLO  
239 PCHL SPHA  
176 CETR ISLA  
256 SPHA NEMO  
44 CORN CANA  
95 MYRI GALE  
177 CLAD ALPE  
205 CLAD UNCI  
21 CARE EXIL  
102 PICE MARI  
115 RHOD CANA  
158 VIBU CASS  
231 MYLI ANCM  
92 MAIA CANA  
97 NEMO MUCR  
185 CLAD CRIT  
189 CLAD GLAU  
194 CLAD MITI  
226 LEPI REPT  
237 PLEU SCHR  
257 SPHA PAPI  
14 CALA PICK  
96 MYRI PENS  
116 RHYN ALBA  
172 CEPH CONN  
179 CLAD BORY  
200 CLAD SQUA  
206 CLAD VERT  
207 CLAD FLUI  
211 DICR LEIG  
245 RICC LATI  
266 SPHA TENE

Large table with 30 columns and 40 rows of numerical data corresponding to the Companions.

69 SPP

ALSO : (13 SPP)

Summary table listing species and their counts, organized in columns.

ARONIA PRUNIFOLIA VARIANT (TABLE 41)

M = 82.8%  
C = 17.2%

Grid of numbers representing data points for 100 species, with values ranging from 0 to 8.

58 REL,

119 SPP (26% OCCUR ONLY ONCE)

MIRE CHARACTERS

- 39 CHAM CALY
85 KALM FCLI
156 VACC OXYC
262 SPHA RUBE
47 DRCS ROTU
126 SARR PURP
254 SPHA MAGE
58 ERIO ANGU
135 SMIL TRIF

Table showing the distribution of 8 mire characters across 100 species.

- 39 CHAM CALY
85 KALM FCLI
156 VACC OXYC
262 SPHA RUBE
47 DRCS ROTU
126 SARR PURP
254 SPHA MAGE
58 ERIO ANGU
135 SMIL TRIF

DIFFERENTIAL AND ASSOCIATE

- 6 ARCN PRUN
84 KALM ANGU

Table showing the distribution of 2 differential and associate characters across 100 species.

- 6 ARCN PRUN
84 KALM ANGU

Sub-Variants

- 253 SPHA IMBR
137 SOLI ULIG
16 CALO PULC
251 SPFA FUSC
241 POLY STRI
52 EMPE NIGR
192 CLAD IMPE
178 CLAD ARBU
205 CLAD UNCI
8 ASTE NEMC
17 CARE AQUA
20 CARE CANE
25 CARE LASI
13 CALA CANA
141 SPIR LATI
95 MYRI GALE
143 THAL FCLY
36 CARE STRI
64 GALI PALU
89 LCNI VILL
243 SPHA WARN
272 ASTE BORE
181 CLAD CHLO
184 CLAD CRIS
189 CLAD GLAU

Table showing the distribution of sub-variant characters across 100 species, including some boxed sub-tables.

- 253 SPHA IMBR
137 SOLI ULIG
16 CALO PULC
251 SPFA FUSC
241 POLY STRI
52 EMPE NIGR
192 CLAD IMPE
178 CLAD ARBU
205 CLAD UNCI
8 ASTE NEMC
17 CARE AQUA
20 CARE CANE
25 CARE LASI
13 CALA CANA
141 SPIR LATI
95 MYRI GALE
143 THAL POLY
36 CARE STRI
64 GALI PALU
89 LCNI VILL
243 SPHA WARN
272 ASTE BORE
181 CLAD CHLO
184 CLAD CRIS
189 CLAD GLAU

COMPANIONS

- 87 LEDU GROE
199 CLAD RANG
153 VACC ANGU
120 RUBU CHAM
233 ODN SPHA
69 GAYL DUMC
230 MICR SETA
129 SCIR CESP
145 TRIE BORE
115 RHOD CANA
43 COPT TRIF
204 CLAD TERR
216 DICR UNDU
4 ANCR GLAU
60 ERIO SPIS
83 JUNI COMM
177 CLAD ALPE
239 POHL SPHA
44 CCRN CANA
68 GAUL PRCC
86 LARI LARI
237 FLEU SCHR
158 VIBU CASS
97 NEMO MUCR
102 PICE MARI
231 MYLI ANOM
185 CLAD CRIT
256 SPHA NEMC
172 CEPH CCNN
179 CLAD BCRY
191 CLAD GRAC
176 CETR ISLA
186 CLAD FIMB
194 CLAD MITI
21 CARE EXIL
96 MYRI PENS
118 ROSA NITI
157 VACC VITI
162 AULA PALU
257 SPFA PAPI
2 ACER RUBR
14 CALA PICK
37 CARE TRIS
70 GECC LIVI
92 MAIA CANA
93 MELA LINE
116 RHYN ALBA
122 RUBU PUBE
165 BAEC RCSE
200 CLAD SQUA
202 CLAD SUBS
207 CLAD FLUI

Table showing the distribution of companion characters across 100 species.

- 87 LEDU GROE
199 CLAD RANG
153 VACC ANGU
120 RUBU CHAM
233 ODN SPHA
69 GAYL DUMC
230 MICR SETA
129 SCIR CESP
145 TRIE BCRE
115 RHOD CANA
43 COPT TRIF
204 CLAD TERR
216 DICR UNDU
4 ANCR GLAU
60 ERIO SPIS
83 JUNI COMM
177 CLAD ALPE
239 POHL SPHA
44 CCRN CANA
68 GAUL PRCC
86 LARI LARI
237 FLEU SCHR
158 VIBU CASS
97 NEMO MUCR
102 PICE MARI
231 MYLI ANOM
185 CLAD CRIT
256 SPHA NEMC
172 CEPH CCNN
179 CLAD BCRRY
191 CLAD GRAC
176 CETR ISLA
186 CLAD FIMB
194 CLAD MITI
21 CARE EXIL
96 MYRI PENS
118 ROSA NITI
157 VACC VITI
162 AULA PALU
257 SPFA PAPI
2 ACER RUBR
14 CALA PICK
37 CARE TRIS
70 GECC LIVI
92 MAIA CANA
93 MELA LINE
116 RHYN ALBA
122 RUBU PUBE
165 BAEC RCSE
200 CLAD SQUA
202 CLAD SUBS
207 CLAD FLUI

88 SPP

ALSC : (31 spp)

Table listing 31 species (ALSC) with their corresponding numbers (e.g., 3 ALNU RUGC 961, 5 ARET BULB 14).



OMBROTROPHIC = 95%

TRANSITION = 5%

ERIOPHORUM SPISSUM VARIANT (TABLE 43)

M = 59.1%  
C = 40.9%

Large data table with columns for species names (e.g., CHAM CALY, VACC OXYC, SPHA RUBE) and rows of numerical data and symbols (+, -, 1, 2, 3, 4, 5) representing variant characteristics.

61 REL;  
67 SPP (24% OCCUR ONLY ONCE)

Table listing species names and their corresponding variant numbers, mirroring the main table but with a different column structure.

ALSC : (16 SPP)

Table listing species names and their associated numbers, including entries like 6 ARCN PRUN, 32 CARE PAUC, 115 RFCC CANA, etc.

Vertical labels on the left margin: MIRE CHARACTERS, DIFFERENTIAL, SUB-VARIANTS, COMBINATIONS

51 SPP

OMBROTROPHIC: 75%

TRANSITION = 25%

RHYNCHOSPORA ALBA VARIANT (TABLE 44)

M = 61.2%

C = 38.8%

MIXE CHARACTERS

DIFERENTIAL CHARACTERS

Sub-Variants

COMPANIONS

Main data table with columns for species names and rows of numerical/character data. Includes sub-headers like 'MIXE CHARACTERS', 'DIFERENTIAL CHARACTERS', 'Sub-Variants', and 'COMPANIONS'.

134-REL; 98SPP (25% ODCN) ONLY OMCC

ALSO: (25 spp)

Summary table listing species names and counts, organized in columns. Includes species like ALNU RUGG, CALL PALU, CARE PALE, etc.

156 VACC OXYC  
39 CHAM CALY  
47 DRCS RGTU  
262 SPHA RUBE  
254 SPHA MAGE  
126 SARR PURP  
85 KALM POLI  
135 SMIL TRIF  
248 SPHA RECU  
58 ERIC ANGU

116 RHYN ALBA  
207 CLAD FLUI

230 MICR SETA  
256 SPHA NEMO  
6 ARON PRUN  
84 KALM ANGU  
69 GAYL DUMO  
21 CARE EXIL  
258 SPHA PULC  
155 VACC MACR  
147 UTRI CGRN  
88 LITT AMER  
257 SPHA PAPI  
26 CARE LIMC  
148 UTRI GEMI

247 SPHA CUSP  
4 ANDR GLAU  
46 DRCS INTE  
62 ERIC VIRG  
45 DRCS ANGL  
233 ODCN SPHA  
33 CARE PAUP  
127 SCHE PALU  
266 SPHA TENE  
95 MYRI GALE  
60 ERIC SPIS  
78 JUNC BREV  
129 SCIR CESP  
218 DREP FLUI  
29 CARE OLIG  
217 DREP EXAN  
255 SPHA MAJU  
8 ASTE NEMO  
36 CARE STRI  
120 RUBU CHAM  
203 XYRI MONT  
231 MYLI ANCM  
259 SPHA PYLA  
280 JUNC PELO  
16 CALO PULC  
94 MENY TRIF  
20 CARE CANE  
28 CARE NIGR  
86 LARI LARI  
102 PICE MARI  
127 SOLI ULIG  
175 CETR ERIC  
178 CLAD ARBU  
192 CLAD IMPE  
200 CLAD SCUA  
216 DICR UNDU  
246 SPHA ANGE  
250 SPHA FLAV



TRANSITION = 29%  OMBROTROPHIC = 71%  
 VACCINIUM MACROCARPON VARIANT (TABLE 46)

M = 100%

0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	5	6	3	2	2	1	3	2	1	1	1	1	1	1
1	5	1	4	2	3	7	4	7	0	9	2	2	1	0	7	7
7	5	5	9	2	9	0	1	1	0	8	2	1	0	4	3	4

17 REL;  
 49 SPP (39% OCCUR ONLY ONCE)

MIRE CHARACTERS	47	DROS	RTU			+			+								+	1			
	156	VACC	DXYC	+		1	1				1	+	+	+							
	262	SPHA	RUBE			+						1	1					+	+		
	126	SARR	PURP								-	-	+								
	39	CHAM	CALY	+			1														
	254	SPHA	MAGE									+									
	155	VACC	MACR	1	2	2	+	1	1	1	2	+	1	2	2	2	1	1	1	3	
	116	RHYN	ALBA	1	3	1	2	2	2	1	1	2	1	2	1	1	1	1	1	2	
	207	CLAD	FLUI	4	5	5	5	4	5		5	3	5	5	5	5	5	4		5	
	46	DROS	INTE	-	1		2	+	2	1	+	1	1	1	2	1	+			+	
Dataset Limited ASSOCIATES SUB-VARIANTS	147	UTRI	CORN					3	1	1	4	1	4	1	1	1	2				
	30	CARE	PALE															1	<u>3</u>	<u>2</u>	
	95	MYRI	GALE															+	1	+	
	16	CALO	PULC																+	+	
	52	EMPE	NIGR																2	1	
	249	SPHA	FIMB																<u>5</u>	<u>4</u>	
	8	ASTE	NEMO									+	+						1	1	
	258	SPHA	PULC	2					1	1	2	4	3	1	1						
	88	LITT	AMER										2	1	+	+					
	62	ERIC	VIRG			+	+	1					1	1							
45	DROS	ANGL			1	1	1														
COMPANIONS	247	SPHA	CUSP	2	1	2		2	1		+	1			1	1					
	4	ANDR	GLAU	+				+				+	1	+	+				+	+	
	129	SCIR	CESSP									-			+					- 1	
	33	CARE	PAUP			1														- +	
	255	SPHA	MAJU	2																+	
	257	SPHA	PAPI			1		+												+	+
	266	SPHA	TENE	1	2				1					+							
	78	JUNC	BREV						1												+
	233	ODON	SPHA									+			+						

30 SPP

ALSC : (19 SPP)		
6	APCN PRUN	174
26	CARE LIMC	104
113	PREN TRIF	173
168	CALL STRA	173
178	CLAD ARBU	174
217	DREP EXAN	339
283	MUHL UNIF	1300
20	CARE CANE	173
79	JUNC BUFQ	549
150	UTRI INTE	270
175	CETR ERIC	549
192	CLAD IMPE	110
246	SPHA ANGE	270
21	CARE EXIL	1300
85	KALM POLI	622
162	AULA PALU	173
176	CETR ISLA	298
203	XYRI MONT	1300
259	SPHA PYLA	1300

OMBROTROPHIC = 86%

TRANSITION = 14%

ERIOPHORUM VIRGINICUM VARIANT (TABLE 47)

M = 40%

C = 60%

1	1	0	1	1	1	0	1	1	1	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0
0	1	5	0	1	1	4	2	2	0	1	2	0	4	3	5	5	8	8	9	0	0	0	0	1	4
9	1	5	1	6	7	2	0	6	8	6	4	7	2	2	3	3	7	7	1	1	1	4	6	0	
4	2	6	7	7	2	4	9	8	0	0	1	5	2	7	8	9	0	7	4	8	9	8	1	1	

35 REL

57 spp (45% occur only once)

39	CHAM	CALY	4	1	1	+	+	1	1	+	1	1	1	3	3	1	2	2	1	1	+	+	1	+	1	1	+	1	1	1	1	5	3
254	SPHA	MAGE	4	4	5	5	5	4	5	5	5	4	4	5	5		+																
156	VACC	OXYC		1	+	+	1	+	1																								
262	SPHA	RUBE	2	2	1			2	1																								
47	DRCS	RGTU			+			+	+	+	+																						
126	SARR	PURP	1			+		1																									
85	KALM	POLI	1																														
58	ERIO	ANGU		1																													
135	SMIL	TRIF																															
248	SPHA	RECU		+		1																											

62	ERIO	VIRG	1	+	2	+	+	2	1	1	1	+	+	1	1	1	+	1	1	1	+	+	1	1	1	+	1	1	+	+	1	1	+	1
----	------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

247	SPHA	CUSP																																
207	CLAD	FLUI																																
116	RHYN	ALBA																																
33	CARE	PAUP																																
87	LEDU	GRCE																																
115	RHCD	CANA																																
84	KALM	ANGU																																
95	MYRI	GALE																																
60	ERIO	SPIS																																
45	DRCS	ANGL																																
46	DRCS	INTE																																
155	VACC	MACR																																

4	ANDR	GLAU		+	+																													
26	CARE	LIMG																																
257	SPHA	PAPI																																
258	SPHA	PULC																																
3	ALNU	RUGG																																
147	UTRI	CORN																																
217	DREP	EXAN																																
241	POLY	STRI																																

31 spp

ALSO: (26 spp)

6	ARCN	PRUN	1268	8	ASTE	NEMO	160	13	CALA	CANA	160
29	CARE	CLIG	974	37	CARE	TRIS	160	76	IRIS	VERS	160
86	LARI	LARI	1268	90	LYCC	UNIF	160	91	LYSI	TERR	160
94	MENY	TRIF	1061	100	GSMU	CINN	160	102	PICE	MARI	1080
127	SCHE	PALU	1094	137	SOLI	ULIG	160	145	TRIE	BORE	160
148	UTRI	GEMI	1179	161	VIOL	PALL	160	168	CALL	STRA	160
178	CLAD	ARBU	160	221	PYLO	SPLE	160	222	HYPN	IMPO	160
233	CDCN	SPHA	424	237	PLEU	SCHR	160	251	SPHA	FUSC	1075
266	SPHA	TENE	974	280	JUNC	PELO	1082				



ANDROMEDA GLAUCOPHYLLA VARIANT (TABLE 49)

M = 47.1%

C = 52.9%

70 RELI

84 spp (32% ONLY OCCUR ONCE)

MAJOR CHARACTERS

DIFFERENTIAL

Detected Limited

Sub-Variants

COMBINATIONS

39 CHAM CALY  
156 VACC OXYC  
47 DRCS ROTU  
85 KALM POLI  
254 SPHA MAGE  
126 SARR PURP  
262 SPHA RUBE  
135 SMIL TRIF  
248 SPHA RECU  
58 ERIO ANGU

Grid of numbers and symbols (0, 1, +, -, 5, 2, 3, 4) representing character presence across 100 columns and 50 rows.

39 CHAM CALY  
156 VACC OXYC  
47 DRCS ROTU  
85 KALM POLI  
254 SPHA MAGE  
126 SARR PURP  
262 SPHA RUBE  
135 SMIL TRIF  
248 SPHA RECU  
58 ERIO ANGU

4 ANDR GLAU

Row of numbers and symbols for ANDR GLAU variant.

4 ANDR GLAU

95 MYRI GALE  
257 SPHA PAPI  
29 CARE OLIG  
258 SPHA PULC  
16 CALO PULC  
52 EMPE NIGR  
30 CARE PALE  
249 SPHA FIMB  
8 ASTE NEMO  
10 ASTE RADU  
125 SANG CANA  
145 TRIE BCRE  
231 MYLI ANCM  
129 SCIR CESP  
21 CARE EXIL  
246 SPHA ANGE  
98 NUPH VARI  
247 SPHA CUSP  
207 CLAD FLUI  
86 LARI LARI  
253 SPHA IMBR

Grid of numbers and symbols for characters 95-253 across 100 columns and 25 rows.

95 MYRI GALE  
257 SPHA PAPI  
29 CARE OLIG  
258 SPHA PULC  
16 CALO PULC  
52 EMPE NIGR  
30 CARE PALE  
249 SPHA FIMB  
8 ASTE NEMO  
10 ASTE RADU  
125 SANG CANA  
145 TRIE BCRE  
231 MYLI ANCM  
129 SCIR CESP  
21 CARE EXIL  
246 SPHA ANGE  
98 NUPH VARI  
247 SPHA CUSP  
207 CLAD FLUI  
86 LARI LARI  
253 SPHA IMBR

26 CARE LIMO  
116 RHYN ALBA  
127 SCHE PALU  
62 ERIO VIRG  
155 VACC MACR  
33 CARE PAUP  
46 DRCS INTE  
94 MENY TRIF  
218 DREP FLUI  
255 SPHA MAJU  
45 DRCS ANGL  
217 DREP EXAN  
15 CALL PALU  
32 CARE PAUC  
233 ODCN SPHA  
6 ARCN PRUN  
11 BETU GLAN  
34 CARE ROST  
60 ERIO SPIS  
84 KALM ANGU  
147 UTRI CORN  
148 UTRI GEMI  
168 CALL STRA  
230 MICR SETA  
241 POLY STRI

Grid of numbers and symbols for characters 26-241 across 100 columns and 35 rows.

26 CARE LIMO  
116 RHYN ALBA  
127 SCHE PALU  
62 ERIO VIRG  
155 VACC MACR  
33 CARE PAUP  
46 DRCS INTE  
94 MENY TRIF  
218 DREP FLUI  
255 SPHA MAJU  
45 DRCS ANGL  
217 DREP EXAN  
15 CALL PALU  
32 CARE PAUC  
233 ODCN SPHA  
6 ARCN PRUN  
11 BETU GLAN  
34 CARE ROST  
60 ERIO SPIS  
84 KALM ANGU  
147 UTRI CORN  
148 UTRI GEMI  
168 CALL STRA  
230 MICR SETA  
241 POLY STRI

57 spp

ALSC : (27 spp)

3 ALNU RUGC 140  
20 CARE CANE 173  
43 COPT TRIF 635  
68 GAUL PROC 127  
83 JUNI CCMM 127  
113 PREN TRIF 173  
162 ALLA PALU 173  
199 CLAD RANG 127  
266 SPHA TENE 974

13 CALA CANA 343  
25 CARE LASI 728  
50 DULI ARUN 1273  
69 GAYL DUMO 127  
89 LCNI VILL 635  
115 RHOD CANA 1228  
178 CLAD ARBU 174  
250 SPHA FLAV 1273  
288 SALI PEDI 728

17 CARE AQUA 140  
27 CARE MICH 733  
61 ERIO TENE 343  
78 JUNC. BREV. 343  
102 PICE MARI 1064  
139 SPAR FLUC 343  
192 CLAD IMPE 127  
251 SPHA FUSC 127  
291 SCIR HUDD 733



□ RHEOTROPIC = 27%      TRANSITION = 73%

CAREX ROSTRATA VARIANT (TABLE 51)

M = 63.6%  
C = 36.4%

0 0 0 0 0 0 0 0 1 1 1 11 REL.  
2 3 3 5 6 5 8 3 0 0 2  
1 0 9 9 1 9 9 8 7 7 8 52 SPP (50% OCCUR ONLY ONCE)  
3 4 9 3 4 7 9 7 1 2 5  
0 0 0 0 0 0

MIRE CHARACTERS  
39 CFAM CALY  
47 CFCS RGTU  
156 VACC GXYC  
254 SPFA MAGE  
262 SPFA RUBE  
85 KALM POLI  
126 SARR PURP  
248 SPHA RECU

1 4 2 1 2 2  
+ + +  
+ + +  
1 1  
1 1 +  
+ +  
+  
2 3

DIFFERENTIAL  
34 CARE ROST  
95 MYRI GALE

2 1 2 1 2 3 1 2 1 1 +  
1 1 3 4 3 3 5 4 2

SUB-VARIANT  
258 SPHA PULC  
257 SPFA PAPI  
4 ANDR GLAU  
218 DREP FLUI  
155 VACC MACR  
24 CARE INTE  
141 SPIR LATI  
217 DREP EXAN  
267 SPHA PLAT

5 4 4  
1 1 + 2  
1 + 1 1 + 1 +  
+ + +  
1 4 1  
1 +  
1 1  
+ +  
1 2

COMPANIONS  
25 CARE LASI  
3 ALNU RUGC  
8 ASTE NEMG  
73 HYPE VIRG  
76 IRIS VERS  
118 ROSA NITI  
168 CALL STRA

+ 3 2  
1 1  
1  
+ +  
+ +  
1 1  
+ 1

26 SPP

ALSO : (26 SPP)

10	ASTE	RACU	304	15	CALL	PALU	614	18	CARE	BRUN	1071
20	CARE	CANE	1071	29	CARE	OLIG	1285	31	CARE	PANI	304
33	CARE	PAUP	593	36	CARE	STRI	1071	37	CARE	TRIS	593
50	DULI	ARUN	1071	51	ELEC	CALV	304	55	EQUI	FLUV	1071
58	ERIC	ANGU	899	61	ERIC	TENE	1071	66	GALI	TRIF	1071
71	GLYC	CANA	1072	90	LYCG	UNIF	1071	91	LYSI	TERR	1071
105	PGLY	AMPH	1071	115	RHOD	CANA	1285	135	SMIL	TRIF	213
207	CLAD	FLUI	1285	227	LOPH	HETE	1285	247	SPHA	CUSP	1285
265	SPHA	SUBS	899	271	ILEX	VERT	1285				



ALSC : (40 spp)

TABLE 53

2	ACER	RUBR	1286	
8	ASTE	NEMO	1284	1283
16	CALO	PULC	31	
34	CARE	ROST	1185	
52	EMPE	NIGR	31	
73	HYPE	VIRG	1284	1286
118	ROSA	NITI	813	
148	UTRI	GEMI	318	
168	CALL	STRA	587	
199	CLAD	RANG	31	
240	POLY	COMM	826	
253	SPHA	IMBR	1226	
277	HABE	BLEP	918	
288	SALI	PEDI	839	

3	ALNU	RUGO	813	1226
14	CALA	PICK	1284	
17	CARE	AQUA	813	
36	CARE	STRI	1139	
55	EQUI	FLUV	1286	
76	IRIS	VERS	1226	1283
120	RUBU	CHAM	411	409
153	VACC	ANGU	803	
172	CEPH	CGNN	1000	
230	MICR	SETA	580	
246	SPHA	ANGE	1273	
261	SPHA	RUSS	826	813
280	JUNC	PELO	1287	

6	ARON	PRUN	813	
15	CALL	PALU	587	1273
21	CARE	EXIL	813	
46	DROS	INTE	616	1286
61	ERIO	TENE	318	1267
78	JUNC	BREV	314	318
141	SPIR	LATI	813	1284
162	AULA	PALU	893	
178	CLAD	ARBU	31	
231	MYLI	ANGM	320	1000
250	SPHA	FLAV	1273	
275	CARE	CHOR	839	
286	SAGI	CUNE	1286	

OMBROTROPHIC = 7%

TRANSITION = 93%

SCHEUCHZERIA PALUSTRIS VARIANT (TABLE 54)

M = 34.3%
C = 65.7%

70 REL;
47 SPP (15% OCCUR ONCE ONLY)

MIRE CHARACTER

DIFFERENTIAL

SUB-VARIANTS

COMPANIONS

Dataset Limited

Table with columns for species codes (e.g., VACC OXYC, CHAM CALY, SPHA MAGE) and numerical data points across multiple rows.

Table with columns for species codes (e.g., VACC OXYC, CHAM CALY, SPHA MAGE) and numerical data points, mirroring the left side.

ALSO : (18 SPP)

Table listing 18 species codes and their associated numbers, such as 11 BETU GLAN 743 935, 32 CARE PAUC 693, etc.



REPRODUCTION = 44%

TRANSITION = 56%

CAREX LASIOCARPA VARIANT (TABLE 56)

M = 46%

C = 52%

0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0					
9	2	2	3	7	7	2	0	2	2	2	2	2	0	0	0	2	8	2	7	9	9	9	9	1	1
0	6	1	0	2	3	8	7	8	8	8	8	8	9	9	9	6	9	6	3	8	8	0	0	8	9
0	5	3	4	8	1	4	6	1	2	3	6	4	3	6	9	8	7	6	7	8	1	6	7	0	0

25 REL;

74 SPP (35% OCCUR ONLY ONCE)

WIRE CHARACTERS  
 39 CHAM CALY  
 126 SARR PURP  
 135 SMIL TRIF  
 156 VACC CXYC  
 254 SPHA MAGE  
 47 DROS ROTU  
 85 KALM PCLI

DIPLODONTIN CHARACTERS  
 25 CARE LASI

SUBS - VARIANTS  
 155 VACC MACR  
 247 SPHA CUSP  
 95 MYRI GALE  
 141 SPIR LATI  
 13 CALA CANA  
 76 IRIS VERS  
 36 CARE STRI  
 46 DROS INTE  
 152 UTRI VULG  
 140 SPAR MULT  
 257 SPHA PAPI  
 258 SPHA PULC  
 4 ANDR GLAU  
 288 SALI PEDI  
 49 DRYC THEL  
 90 LYCO UNIF  
 112 POTE PALU  
 253 SPHA IMBR  
 20 CARE CANE  
 6 ARGN PRUN  
 17 CARE AQUA  
 137 SGLI ULIG

COMPANIONS  
 8 ASTE NEMO  
 55 EQUI FLUV  
 73 HYPE VIRG  
 94 MENY TRIF  
 29 CARE CLIG  
 34 CARE ROST  
 91 LYSI TERR  
 143 THAL PCLY  
 14 CALA PICK  
 15 CALL PALU  
 26 CARE LIMO  
 27 CARE MICH  
 61 ERIO TENE  
 101 OSMU REGA  
 118 RCSA NITI  
 265 SPHA SUBS


46 SPP

ALSO : (28 SPP)

2 ACER RUBR	1286	10 ASTE RADU	304	11 BETU GLAN	728
18 CARE BRUN	736	21 CARE EXIL	267	23 CARE FOLL	190
31 CARE PANI	304	50 DULI ARUN	1286	51 ELEO CALV	304
53 EPIL PALU	265	58 ERIO ANGU	269	62 ERIO VIRG	1076
81 JUNC MILI	267	116 RHYN ALBA	267	127 SCHE PALU	731
128 SCIR ACUT	988	142 SPIR TOME	190	148 UTRI GEMI	269
159 VIOL BLAN	901	161 VIOL PALL	987	168 CALL STRA	304
169 CALL CORD	736	217 DREP EXAN	736	255 SPHA MAJU	987
262 SPHA RUBE	213	286 SAGI CUNE	1286	287 SALI DISC	906
289 SALI PYRI	906				





ALSC : (84 SPP)

TABLE 58

2	ACER RUBR	1149	1286	985	5	ARET BULB	95	7	ASTE CREN	816	444			
11	BETU GLAN	642	809		12	BETU PAPY	1149	14	CALA PICK	1	1284	303		
22	CARE FLAV	111	115		23	CARE FOLL	253	188	252	24	CARE INTE	1073	1072	1071
27	CARE MICH	267	629	21	32	CARE PAUC	253	636		38	CARE VESI	621	629	
40	CICU BULB	60	438	441	41	CICU MACU	442			42	CLIN BORE	252		
43	CCPT TRIF	634	635		44	CORN CANA	33	180	634	54	EQUI ARVE	68		
55	EQUI FLUV	1286	267	1071	56	EQUI SYLV	252			63	EUPA MACU	114	115	
66	GALI TRIF	438	1071		68	GAUL PRCC	1			71	GLYC CANA	1073	808	1072
72	GLYC GRAN	252			74	ILEX GLAB	114	118		75	IMPA CAPE	439	66	
77	JUNC BALT	441	483		80	JUNC FILI	487			81	JUNC MILI	267		
82	JUNC STYG	629			92	MAIA CANA	3			96	MYRI PENS	107		
105	PGLY AMPH	1071			113	FREN TRIF	173			121	RUBU HISP	102		
124	SALI RIGI	111	115		128	SCIR ACUT	988			130	SCIR RUBR	438	439	
132	SCIR VALI	117			133	SENE AURE	253	252		138	SPAR ANGU	28		
146	TYPH LATI	1217			147	UTRI CORN	637			149	VIOL INCO	962		
150	UTRI INTE	629			158	VIBU CASS	965	961		169	CALL CORD	1149	1231	
172	CEPH CCNN	175	303		177	CLAD ALPE	33			178	CLAD ARBU	180	174	
181	CLAD CHLO	1			185	CLAD CRIT	1			191	CLAD GRAC	180		
192	CLAD IMPE	3			199	CLAD RANG	1	3	180	204	CLAD TERR	1	81	107
211	CICR LEIC	303			216	CICR UNDU	384			221	HYLO SPLE	252		
222	HYFN IMPO	303			223	LEPT TRIC	1149			226	LEPI REPT	303	1280	
227	LQPH FETE	1285			234	PALL LYEL	253	303		235	PELL EPIP	19	21	
237	PLEU SCHR	303	384		250	SPHA FLAV	1272			252	SPHA GIRG	68		
259	SPHA PYLA	637			260	SPHA RIPA	494	495		264	SPHA SQUA	66		
267	SPHA PLAT	1072	1072	1071	269	THUI RECO	965			271	ILEX VERT	1285		
273	BETU PUMI	1217			276	EPIL LEPT	1073	907		280	JUNC PELO	1135		
282	MUHL GLOM	966			285	RIBE HIRT	965	966		286	SAGI CUNE	1286		
287	SALI DISC	906			288	SALI PEDI	988			289	SALI PYRI	906		

RHEOTROPIC = 63% TRANSITION = 37%

CAREX STRICTA VARIANT (TABLE 59)

M = 43.7%  
 C = 56.3%

0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	6	6	6	2	2	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9
0	9	9	9	1	3	0	0	0	0	8	8	6	6	6	6	6	6	6	6	6
6	3	2	4	8	1	8	7	2	1	6	8	7	6	2	1	0	0	0	0	0
0	0	0	0	0																

16 REL;  
 74 SPP (43% OCCUR ONLY ONCE)

MIRE CHARACTER

39	CHAM CALY	1	1	1	1	1	1	+	1	1	1	1	1	1	1	1	1	1	1	1
135	SMIL TRIF	1	1	1	1	1	1													
254	SPHA MAGE	2	2	2	+	2														
156	VACC OXYC	+	+	+	1															
248	SPHA RECU					4	5	5												
47	DRCS RGTU	+			+															
126	SARR PURP	-			+															
262	SPHA RUBE	+			1															

DIFFERENTIAL

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SUB-VARIANT

36	CARE STRI	+	2	3	3	2	1	2	1	4	3	4	1	+	1	2	1			
76	IRIS VERS																			
25	CARE LASI																			
141	SPIR LATI																			
13	CALA CANA					1	1	2												
95	MYRI GALE					1	1	2	1											
243	SPHA WARN																			
89	LCNI VILL																			
64	GALI PALU																			
87	LEDU GROE																			
258	SPHA PULC																			
84	KALM ANGU																			
288	SALI PEDI																			
112	PCTE PALU																			
90	LYCO UNIF																			
49	DRYO THEL																			

ALSC : (32 spp)

7	ASTE CREN	902	10	ASTE RADU	966	20	CARE CANE	206
21	CARE EXIL	218	32	CARE PAUC	693	37	CARE TRIS	961
46	DRCS INTE	206	58	ERIO ANGU	693	70	GEOC LIVI	694
85	KALM POLI	694	101	OSMU REGA	988	114	RHAM ALNI	961
115	RHOD CANA	1231	116	RHYN ALBA	206	127	SCHE PALU	693
128	SCIR ACUT	988	145	TRIE BORE	907	149	VIOL INCO	962
155	VACC MACR	988	158	VIBU CASS	961	169	CALL CORD	1231
170	CAMP STEL	961	207	CLAD FLUI	693	231	MYLI ANOM	218
253	SPHA IMBR	1231	255	SPHA MAJU	987	265	SPHA SUBS	901
276	EPIL LEPT	907	282	MUHL GLCM	966	285	RIBE HIRT	966
287	SALI DISC	906	289	SALI PYRI	906			

COMPANIONS

143	THAL FCLY																			
6	ARON PRUN																			
4	ANDR GLAU	+																		
272	ASTE BORE																			
118	ROSA NITI																			
122	RUBU PUBE																			
159	VIOL BLAN																			
257	SPHA PAPI	1																		
3	ALNU RUGC																			
33	CARE PAUP	+	1																	
73	FYPE VIRG																			
86	LARI LARI																			
91	LYSI TERR																			
102	PICE MARI																			
137	SOLI ULIG																			
153	VACC ANGU																			
161	VIOL FALL																			
162	AULA PALU																			

42 spp

RHEOTROPHIC = 100%

SPIRAEA LATIFOLIA VARIANT (TABLE 60)

M = 11.1%  
C = 88.9%

0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
8	0	8	8	8	8	8	8	9	9	9	9	1	1	9	9	9
1	7	0	0	1	1	1	1	1	0	0	8	8	4	5	6	6
5	3	8	9	0	1	4	7	6	6	1	7	8	8	0	1	2

18 REL;

69 SPP (43% OCCUR ONLY ONCE)

MIXE CHARACTER

DIFFERENTIAL AND ASSOCIATES

Dataset Limited

SUB-VARIANTS

COMPANIONS

39	CHAM CALY	1	2	1	1	+	+	1	1			1	1	+		
141	SPIR LATI	1	1	+	+	+	+	1	1	1	1	1	1	+	+	+
13	CALA CANA	1	1	1	1	1	+	1	1	1	1	1	1	1	+	+
95	MYRI GALE	<u>2</u>	<u>5</u>	3	2	2	2		1	1	1	1			<u>3</u>	<u>4</u>
143	THAL PGLY								2	+	1				1	1
6	ARGN PRUN			+	+										1	1
87	LEDU GRGE	1													1	1
64	GALI PALU														-	+
89	LCNI VILL														-	1
243	SPHA WARN														<u>5</u>	<u>5</u>
272	ASTE EORE														1	+
36	CARE STRI			+					<u>4</u>	<u>3</u>	+	<u>1</u>			1	2
25	CARE LASI								<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>				
76	IRIS VERS								+	+	-					
90	LYCC UNIF														+	+
49	DRYO THEL														1	3
91	LYSI TERR														+	+
73	HYPE VIRG														+	+
17	CARE AQUA														+	+
288	SALI PEDI															
112	POTE PALU														2	2
161	VIOL PALL														+	+
261	SPHA RLSS														1	
34	CARE ROST															
235	PELL EPIP															
223	LEPT TRIC															
136	CLIM DENC															
66	GALI TRIF															
3	ALNU RUGC	1	1	1	+			1	-	1					-	1
4	ANER GLAU	1				+	1				1					1
71	GLYC CANA			+	-			+								
86	LARI LARI														-	+
118	ROSA NITI														1	
162	AULA PALU														1	-
48	DRYO CRIS	1														
102	PICE MARI															
122	RUBU PUBE															
159	VIOL ELAN															
249	SPHA FIME															

ALSC : (30 SPP)

7	ASTE CREN	816	10	ASTE RADU	966	11	BETU GLAN	809
18	CARE BRUN	1150	24	CARE INTE	1073	37	CARE TRIS	961
53	EPIL PALU	1148	85	KALM POLI	811	101	OSMU REGA	988
114	RFAM ALNI	961	128	SCIR ACUT	988	137	SOLI ULIG	961
142	SPIR TOME	1073	149	VIOL INCO	962	153	VACC ANGU	816
155	VACC MACR	988	158	VIBU CASS	961	169	CALL CORD	1148
170	CAMP STEL	961	254	SPHA MAGE	815	255	SPHA MAJU	987
257	SPHA PAPI	815	262	SPHA RUBE	815	265	SPHA SUBS	901
267	SPHA PLAT	1073	276	EPIL LEPT	1073	282	MUHL GLCM	966
285	RIBE HIRT	966	287	SALI DISC	906	289	SALI PYRI	906

39 SPP



RHEOTROPHIC = 87%

TRANSITION = 13%

ALNUS RUGOSA VARIANT (TABLE 62)

M = 46.7%

0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
0	3	0	8	0	1	1	8	8	8	8	2	2	4	4
9	0	8	1	7	5	5	1	1	0	0	0	0	8	4
8	2	6	5	3	3	0	6	4	9	8	2	4	6	0
0	0	0												

15 REL;

C = 53.3%

70 SPP (48% OCCUR ONLY ONCE)

MIRE CHARACTERS	39	CHAM CALY	1	3	1	2			1	1	1	+
	47	DRGS RGTU	1	1	+							
	156	VACC OXYC	1	1	1							
	262	SPHA RUBE	4	+	1							
	126	SARR PURP	1		1							
	135	SMIL TRIF	1		1							
	254	SPHA MAGE	1		1							

DIFFERENTIAL	3	ALNU RUGC	+	1	2	1	1	+	1	1	1	+	1	1	+	+	+
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SUB-VARIANTS	17	CARE AQUA							5	5	5	5	2	2
	13	CALA CANA	1	1	1	1	+	1	1	1	1	+		
	141	SPIR LATI	1	1	+	1	1	+	+					
	161	VIOL PALL	+	+										
	261	SPHA RUSS		4	5									
	256	SPHA NEMO	5	5										
	21	CARE EXIL	1	1										
	137	SCLI ULIG	1	+	1									
	241	POLY STRI	1	1										
	34	CARE RGST					+	2	4					
	90	LYCO UNIF					1	1	1					
	91	LYSI TERR					+	1	+				+	
	73	HYPE VIRG						1	+				+	
	18	CARE BRUN							+	2				
	223	LEPT TRIC												
	30	CARE PALE						1	2					
	217	DREP EXAN						1	1					

ALSC : (34 SPP)

7	ASTE CREN	816	10	ASTE RADU	302	11	BETU GLAN	809
14	CALA PICK	302	15	CALL PALU	86	20	CARE CANE	486
24	CARE INTE	1073	25	CARE LASI	98	26	CARE LIMO	440
33	CARE FAUP	86	36	CARE STRI	1073	49	DRYO THEL	1150
66	GALI TRIF	1150	69	GAYL DUMO	302	75	IMPA CAPE	1153
85	KALM POLI	302	86	LARI LARI	1150	112	POTE PALU	440
125	SANG CANA	440	136	CLIM DEND	1150	142	SPIR TOME	1073
143	THAL PGLY	816	153	VACC ANGU	816	162	AULA PALU	1150
169	CALL CORC	1153	197	PLAG DENT	1153	235	PELL EPIP	1150
244	SPHA PALU	1153	248	SPHA RECU	1153	249	SPHA FIMB	809
253	SPHA IMBR	86	264	SPHA SQUA	486	267	SPHA PLAT	1073
276	EPIL LEPT	1073						

COMPANIONS	95	MYRI GALE	2		2	5		1	2	3	1	1	1
	6	ARCN PRUN	+		+					+	+		
	48	DRYO CRIS				1	+	-					
	71	GLYC CANA				+		+					
	4	ANDR GLAU		+		1							
	8	ASTE NEMO	1								1		
	53	EPIL PALU			+							+	
	76	IRIS VERS				+							+
	87	LECU GROE		1		1							
	118	RCSA NITI		1				1					
	257	SPHA PAPI				1						1	

36 SPP

RHEOTROPHIC = 89% TRANSITION = 11%

CAREX PALEACEA VARIANT (TABLE 64)

M = 100%

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	3	4	4	4	4	4	8	8	8	8	8	8	8	9	7	7	8	8	8
8	9	0	1	2	3	5	6	8	1	0	7	2	3	5	3	4	5	5	5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

18 REL;  
 47 spp (27% occur only once)

MIRE CHARACTER

156	VACC	QXYC								1	1	1	2	2	1				
47	DRCS	ROTU													1	1	+	1	
262	SPHA	RUBE																+	+

DIFFERENTIAL

30	CARE	PALE	3	3	2	2	3	1	2	1	2	2	3	1	1	2	1	3	3	1
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Dataset Limited SUB-VARIANTS

73	HYPE	VIRG							+	+	1	1	2	1	1	+			1			
33	CARE	PAUF									2	1	1	1	1	1	-	+				
249	SPHA	FIMB											5	5	5	5	5	4	5			
95	MYRI	GALE											-	4	2	2	1	1	+			
217	DREP	EXAN	1	2	1	1	3															
26	CARE	LIMO	1	1	1	1	+	1	1	1	5	4	+									
65	GALI	TINC	3	1	3	4	3	4	2													
123	RUME	ORBI																				
4	ANDR	GLAU	+	+															+	+		
8	ASTE	NENC																		1	1	
16	CALO	PULC																			+	+
52	EMPE	NIGR																			2	1
116	RHYN	ALBA																			1	2
129	SCIR	CESP																			-	1
155	VACC	MACR																			1	3

COMPANIONS

76	IRIS	VERS	1		+			+	+	2	+		1									-	
13	CALA	CANA	1		1	+				2			+										
20	CARE	CANE								1	2		+	1								+	
91	LYSI	TERR								+	+	2	1			1							
77	JUNC	BALT				+				1		+				+							
112	PGTE	PALU	2	2			1														+		
168	CALL	STRA											1								+	+	+
53	EPIL	PALU	-				1									1							
130	SCIR	RUBR	+	1						+													
161	VIOL	PALL	1	+	1																		
3	ALNU	RUGO					+			+													
40	CICU	BULB	+				+																
94	MENY	TRIF											1	1									
125	SANG	CANA			2	+																	
264	SPHA	SQUA																				1	

34 spp

ALSC : (13 spp)

6	ARCN	PRUN	174	39	CHAM	CALY	495	41	CICU	MACU	442
46	DRCS	INTE	174	64	GALI	PALU	439	66	GALI	TRIF	438
75	IMPA	CAPE	439	80	JUNC	FILI	487	113	PREN	TRIF	173
162	AULA	PALU	173	178	CLAD	ARBU	174	207	CLAD	FLUI	174
260	SPHA	RIPA	495								

☐ RHEOTROPIC = 88%      TRANSITION = 12%  
 CAREX CANESCENS VARIANT (TABLE 65)

M = 87.5%      8 REL;  
 C = 12.5%      52 SPP (61% OCCUR ONLY ONCE)

1	0	0	0	0	0	0
0	4	1	4	4	1	1
6	8	7	8	9	8	9
9	0	3	7	1	7	0
0	0	0	0	0	0	0

MIRE CHARACTER  
DIFFERENTIAL

156 VACC GXYC      1      1      +

20 CARE CANE      1 + + 1 2 + + +

253 SPHA IMBR      5 5 5

137 SCLI ULIG      + + +

17 CARE AGUA      + 1 1

6 ARGN PRUN      + 2 -

8 ASTE NEMC      1      1 1 1

13 CALA CANA      + 1      1 1 1

76 IRIS VERS      1 + - +

249 SPHA FIMB      5 5 5

95 MYRI GALE      - 1 4 + 1

30 CARE PALE      3 3 1

33 CARE PAUP      1 - 1

73 HYPE VIRG      1 1      2 +

217 DREF EXAN      3 4      +

25 CARE LASI      + +

141 SPIR LATI      + -

Dataset Limited  
SUB-VARIANTS

COMPANIONS

53 EPIL PALU      1      +

90 LYCO UNIF      +      +

91 LYSI TERR      2      +

20 SPP

ALSO : (32 SPP)

4 ANDR GLAU      173  
 23 CARE FGLL      190  
 47 DRCS ROTU      173  
 52 EMPE NIGR      173  
 66 GALI TRIF      1069  
 85 KALM POLI      187  
 116 RHYN ALBA      173  
 134 SIUM SUAV      1069  
 155 VACC MACR      173  
 168 CALL STRA      173  
 278 HYDR AMER      1069

15 CALL PALU      491  
 34 CARE ROST      1069  
 49 DRYO THEL      189  
 55 EQUI FLUV      1069  
 79 JUNC BUFC      1069  
 101 OSMU REGA      190  
 118 ROSA NITI      190  
 142 SPIR TOME      190  
 160 VIDL CUCL      189  
 262 SPHA RUBE      173  
 279 HYPE BORE      1069

16 CALO PULC      173  
 40 CICU BULB      1069  
 50 DULI ARUN      1069  
 65 GALI TINC      189  
 80 JUNC FILI      487  
 113 PREN TRIF      173  
 129 SCIR CESP      173  
 143 THAL PGLY      190  
 162 AULA PALU      173  
 267 SPHA PLAT      1069

RHEOTROPIC = 100%

LONICERA VILLOSA VARIANT (TABLE 66)

M = 50%

C = 50%

0	0	0	0
5	5	0	0
6	6	6	6
2	6	5	4

4 REL;

40 SPP (57% OCCUR ONLY ONCE)

o o

MIRE

ASSOCIATES DIFFERENTIAL CHARACTERS

156	VACC OXYC	+	+
89	LCNI VILL	1	1 1 1
13	CALA CANA	+	+
87	LEDU GROE	1	1 1
141	SPIR LATI	1	1 +

Dataset Limited

SUB-VARIANTS

95	MYRI GALE	4	3
243	SPHA WARN	5	5
6	ARCN PRUN	1	1
36	CARE STRI	2	1
64	CALI PALU	+	+
102	PICE MARI	-	+
143	THAL PCLY	1	1
272	ASTE BORE	+	2
112	PCTE PALU	2	2
137	SOLI ULIG	+	+
253	SPHA IMBR	5	5

COMPANIONS

162	AULA PALU	+	1
10	ASTE RADU	1	
28	CARE NIGR		2
33	CARE PAUP		1
39	CHAM CALY	1	
47	DPCS RCTU		+
49	DRYO THEL		1
52	EMPE NIGR		1
53	EPIL PALU		+
54	EQUI ARVE		1
77	JUNC EALT		1
118	ROSA NITI	1	
122	RUBU PUBE	-	
126	SARR PUFF		+
149	VICL INCC	1	
159	VICL ELAN	1	
160	VICL CUCU		+
166	BRYH NGVA		1
170	CAMP STEL		+
220	HELO BLAN		1
241	POLY STRI		2
249	SPHA FIMB		1
282	MUHL GLCM	1	
285	RIBE HIRT	1	

40 SPP

☐ RHEOTROPHIC = 100%

PCTENTILLA PALUSTRIS VARIANT (TABLE 67)

0	0	0	0	0
0	4	0	0	0
6	4	6	6	6
7	4	6	5	4
0	0	0	0	0

5 REL;

39 SPP (66% OCCUR ONLY ONCE)

MIRE DIFFERENTIAL CHARACTERS

◦ M = 100%

SUB-VARIANT

156	VACC	CXYC			+	+			
112	PGTE	PALU	1	1	2	2	2		
95	MYRI	GALE			<table border="1"><tr><td>3</td><td>5</td></tr></table>	3	5		
3	5								
13	CALA	CANA	+	1	+	1			
65	GALI	TINC	+	1	1				
20	CARE	CANE	+	1					
170	CAMP	STEL			1	+			
89	LCNI	VILL			<table border="1"><tr><td>1</td><td>1</td></tr></table>	1	1		
1	1								
137	SOLI	ULIG			+	+			
253	SPHA	INBR			<table border="1"><tr><td>5</td><td>5</td></tr></table>	5	5		
5	5								

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53	EPIL	PALU			+	+
160	VIOL	CUCU			+	+
75	IMPA	CAPE	+		+	
3	ALNU	RUGO	4			
7	ASTE	CREN		1		
9	ASTE	NOVI			+	
26	CARE	LIMO		1		
28	CARE	NIGR				2
30	CARE	PALE		2		
33	CARE	PAUP				1
47	DRCS	RCTU			+	
49	DRYD	THEL			1	
52	EMPE	NIGR			1	
54	EQUI	ARVE			1	
73	HYPE	VIRG	1			
77	JUNC	BALT				1
87	LEDU	GRCE			1	
123	RUME	ORBI	2			
126	SARR	PURF			+	
141	SPIR	LATI			+	
162	AULA	PALU			1	
166	BRYH	NOVA			1	
167	BRYU	PSEU	1			
172	CEPH	CCNA		+		
217	DREP	EXAN		1		
220	HELO	ELAN				1
241	PCLY	STRI				2
249	SPHA	FIMB				1
264	SPHA	SQUA			+	

39 SPP

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SPECIES LIST  
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THE SPECIES REFERENCED IN THE TABLES  
ARE LISTED HERE SEQUENTIALLY ACCORDING TO THEIR  
REFERENCE NUMBERS. THIS LISTING SHOULD BE  
CONSULTED IN CASES OF AMBIGUITY OR DOUBT AS TO  
THE SPECIES REFERRED TO BY THE ABBREVIATIONS  
IN THE TABLES.

.....

001	ABIES	BALSAMEA
002	ACER	RUBRUM
003	ALNUS	RUGOSA
004	ANDROMEDA	GLAUCOPHYLLA
005	ARETHUSA	BULBOSA
006	ARCTIA	PRUNIFOLIA
007	ASTER	CRENIFOLIUS
008	ASTER	NEMORALIS
009	ASTER	NOVIBELGII
010	ASTER	RADULA
011	BETULA	GLANDULOSA
012	BETULA	PAPYRIFERA
013	CALAMAGROSTIS	CANADENSIS
014	CALAMAGROSTIS	PICKERINGII
015	CALLA	PALUSTRIS
016	CALOPOGON	PULCHELLUS
017	CAREX	AQUATILIS
018	CAREX	BRUNNESCENS
019	CAREX	BULLATA
020	CAREX	CANESCENS
021	CAREX	EXILIS
022	CAREX	FLAVA
023	CAREX	FOLLICULATA
024	CAREX	INTERIOR
025	CAREX	LASIOCARPA
026	CAREX	LIMOSA
027	CAREX	MICHAUXIANA
028	CAREX	NIGRA
029	CAREX	CLIGOSPERMA
030	CAREX	PALEACEA

031	CAREX	FANICEA
032	CAREX	PAUCIFLORA
033	CAREX	PAUPERCULA
034	CAREX	ROSTRATA
035	CAREX	SALINA
036	CAREX	STRICTA
037	CAREX	TRISPERMA
038	CAREX	VESICARIA
039	CHAMAEDAPHNE	CALYCVLATA
040	CICUTA	BULBIFERA
041	CICUTA	MACULATA
042	CLINTONIA	BOREALIS
043	COPTIS	TRIFOLIA
044	CORNUS	CANADENSIS
045	DROSEEA	ANGLICA
046	DROSEEA	INTERMEDIA
047	DROSEEA	ROTUNDIFOLIA
048	DRYOPTERIS	CRISTATA
049	DRYOPTERIS	THELYPTERIS
050	DULICHIVM	ARUNDINACEVM
051	ELECCHARIS	CALVA
052	EMPETRVM	NIGRVM
053	EPILOBIVM	PALVSTRE
054	EQUISETVM	ARVENSE
055	EQUISETVM	FLUVIATILE
056	EQUISETVM	SYLVATICVM
057	ERIOCAVLON	SEPTANGVLARE
058	ERIOPHORVM	ANGVSTIFOLIVM
059	ELECCHARIS	SMALLII
060	ERICPHORVM	SPISSVM
061	ERICPHORVM	TENELLVM
062	ERICPHORVM	VIRGINICVM
063	EVPATORIVM	MACVLATVM
064	GALIVM	PALVSTRE
065	GALIVM	TINCTVRIVM
066	GALIVM	TRIFIDVM
067	GAVLTHERIA	HISPICVLA
068	GAVLTHERIA	PROCVMBENS
069	GAYLUSSACIA	DVMOVA
070	GEOCAVLON	LIVIDVM
071	GLYCERIA	CANADENSIS
072	GLYCERIA	GRANDIS
073	HYPERICVM	VIRGINICVM
074	ILEX	GLABRA
075	IMPATIENS	CAPENSIS
076	IRIS	VERSICGLOR
077	JVNCVS	BALTICVS
078	JVNCVS	BREVICAUCATVS
079	JVNCVS	BUFCNIVS
080	JVNCVS	FILIFORMIS
081	JVNCVS	MILITARIS
082	JVNCVS	STYGIVS
083	JVNIPE RVS	COMMVNIS
084	KALMIA	ANGVSTIFOLIA
085	KALMIA	POLIFOLIA
086	LARIX	LARICINA
087	LEDVM	GRONLANDICVM
088	LITTORELLA	AMERICANA
089	LONICERA	VILLCSA
090	LYCOPVS	UNIFLORVS

091	LYSIMACHIA	TERRESTRIS
092	MAIANTHENUM	CANADENSE
093	MELAMPYRUM	LINEARE
094	MENYANTHES	TRIFOLIATA
095	MYRICA	GALE
096	MYRICA	PENNSYLVANICA
097	NEMOPANTHUS	MUCRONATA
098	NUPHAR	VARIEGATUM
099	NYMPHAEA	OBORATA
100	OSMUNDA	CINNAMOMEA
101	OSMUNDA	REGALIS
102	PICEA	MARIANA
103	PINUS	BANKSIANA
104	PINUS	STROBUS
105	POLYGONUM	AMPHIBIUM
106	POTAMOGETON	CONFEROIDES
107	POTAMOGETON	EPIHYDRUS
108	POTAMOGETON	FILIFORMIS
109	POTAMOGETON	CAKESIANUS
110	POTAMOGETON	NATANS
111	POTENTILLA	FRUTICOSA
112	POTENTILLA	PALUSTRIS
113	PRENANTHES	TRIFOLIOLATA
114	RHAMNUS	ALNIFOLIA
115	RHODODENDRON	CANADENSE
116	RHYNCHOSPORA	ALBA
117	RHYNCHOSPORA	FUSCA
118	ROSA	NITIDA
119	ROSA	VIRGINIANA
120	RUBUS	CHAMAECRUS
121	RUBUS	HISPIDUS
122	RUBUS	PUBESCENS
123	RUMEX	CRIBRULATUS
124	SALIX	RIGIDA
125	SANGUISORBA	CANADENSIS
126	SARRACENIA	PURPUREA
127	SCHUCHZERIA	PALUSTRIS
128	SCIRPUS	ACUTUS
129	SCIRPUS	CESPITOSUS
130	SCIRPUS	RUBROINCTUS
131	SCIRPUS	SUBTERMINALIS
132	SCIRPUS	VALIDUS
133	SENECIO	AUREUS
134	SIUM	SUAVE
135	SMILACINA	TRIFOLIA
136	CLIMACIUM	DENDROICES
137	SOLICAGO	ULIGINOSA
138	SPARGANIUM	ANGUSTIFOLIUM
139	SPARGANIUM	FLUCTUANS
140	SPARGANIUM	MULTIPEDUNCULATUM
141	SPIRAEA	LATIFOLIA
142	SPIRAEA	TORMENTOSA
143	THALICTRUM	POLYGAMUM
144	THUJA	OCCIDENTALIS
145	TRIENTALIS	BOREALIS
146	TYPHA	LATIFOLIA
147	UTRICULARIA	CORNUTA
148	UTRICULARIA	GEMINISCAPA
149	VIOLA	INCOGNITA
150	UTRICULARIA	INTERMEDIA

151	UTRICULARIA	MINGF
152	UTRICULARIA	VULGARIS
153	VACCINIUM	ANGUSTIFOLIUM
154	VACCINIUM	ECREALE
155	VACCINIUM	MACROCARPON
156	VACCINIUM	OXYCOCOS
157	VACCINIUM	VITISIDAEA
158	VIBURNUM	CASSINOIDES
159	VIOLA	BLANCA
160	VIOLA	CUCULLATA
161	VIOLA	PALLENS
162	AULACOMNIUM	PALUSTRE
163	PAZZANIA	TRILOBATA
164	BLEPHAROSTOMA	TRICHOPHYLLUM
165	BAEOMYCES	ROSEUS
166	ERYHNA	NOVAE-ANGLIAE
167	BRYUM	PSEUDOTRIQUETRUM
168	CALLIERGON	STRAMINEUM
169	CALLIERGON	CORDIFOLIUM
170	CAMPYLUM	STELLATUM
171	LOPHOZIA	MARCHICA
172	CEPHALOCZIA	CONNIVENS
173	CEPHALOCZIA	MEDIA
174	CLADONIA	BACILLARIS
175	CETRARIA	ERICETOFUM
176	CETRARIA	ISLANDICA
177	CLADONIA	ALPESTRIS
178	CLADONIA	ARBUSCULA
179	CLADONIA	BORYI
180	CLADONIA	CENCTEA
181	CLADONIA	CHLOROPHAEA
182	CLADONIA	CONIOCRAEA
183	CLADONIA	CONNATA
184	CLADONIA	CRISPATA
185	CLADONIA	CRISTATELLA (=CLAD CRIT)
186	CLADONIA	FIMBRIATA
187	CLADONIA	DEFORMIS
188	CLADONIA	FURCATA
189	CLADONIA	GLAUCA
190	CLADONIA	GONICHA
191	CLADONIA	GRACILIS
192	CLADONIA	IMPEXA
193	DICRANUM	DRUMMONDII
194	CLADONIA	MITIS
195	SPARGANIUM	CHLOROCARPUM
196	CLADONIA	PITYREA
197	PLAGIOTHECIUM	DENTICULATUM
198	DREPANOCLADUS	UNCINATUS
199	CLADONIA	RANGIFERINA
200	CLADONIA	SQUAMOSA
201	SPIRANTHES	LACERA
202	CLADONIA	SUBSQUAMOSA
203	XYRIS	MONTANA
204	CLADONIA	TERRAE-NOVAE
205	CLADONIA	UNCIALIS
206	CLADONIA	VERTICILLATA
207	CLADOPODIELLA	FLUITANS
208	CORNICULARIA	ACULEATA
209	DICRANUM	FLAGELLARE
210	DICRANUM	FUSCESCENS

211	DICRANUM	LEICNEUFEN
212	DICRANUM	MAJUS
213	DICRANUM	MONTANUM
214	DICRANUM	POLYSETUM
215	DICRANUM	SCOPARIUM
216	DICRANUM	UNDULATUM
217	DREPANOCLADUS	EXANILLATUS
218	DREPANOCLADUS	FLUITANS
219	CONTINUALIS	ANTI-PYRETICA
220	HELODIUM	BLANCOVII
221	HYLOCOMIUM	SPLENCENS
222	HYPNUM	IMPENSIS
223	LEPTODICTYUM	TRICHOPODIUM
224	LECIDEA	GRANULOSA
225	SPARGANIUM	ANDROCLADUM
226	LEPIDOZIA	REPTANS
227	LOPHOCOLEA	PETERPHYLLA
228	LOPHOZIA	ATTENUATA
229	LOPHOZIA	PORPHYROLEUCA
230	MICROLEPIDOZIA	SETACEA
231	MYLIA	ANGMALA
232	CHELOLECFIA	FRIGIDA
233	ODONTOSCHISMATA	SPHAGNI
234	PALLAVICINIA	LYELLII
235	PELLIA	EPIPHYLLA
236	PLAGIOTHECIUM	LAETUM
237	PLEUROZIDIUM	SCHREBERI
238	POHLIA	NUTANS
239	POHLIA	SPHAGNICOLA
240	POLYTRICHUM	COMMUNE
241	POLYTRICHUM	STRICTUM
242	PTILIUM	CRISTA-CASTRENSIS
243	SPHAGNUM	WARNSTORFII
244	SPHAGNUM	PALUSTRE
245	RICCARDIA	LATIFRONS
246	SPHAGNUM	ANGERMANNICUM
247	SPHAGNUM	CUSPIDATUM
248	SPHAGNUM	RECURVUM
249	SPHAGNUM	FIMBRIATUM
250	SPHAGNUM	FLAVICOMANS
251	SPHAGNUM	FUSCUM
252	SPHAGNUM	GIRGENSCHNII
253	SPHAGNUM	IMBRICATUM
254	SPHAGNUM	MAGELLANICUM
255	SPHAGNUM	MAJUS
256	SPHAGNUM	NEMOREUM
257	SPHAGNUM	PAPILLOSUM
258	SPHAGNUM	PULCHRUM
259	SPHAGNUM	PYLAESII
260	SPHAGNUM	RIPARIUM
261	SPHAGNUM	RUSSOWII
262	SPHAGNUM	RUBELLUM
263	HYPOGYMNIA	PHYSODES
264	SPHAGNUM	SQUARESUM
265	SPHAGNUM	SUBSECUNDUM
266	SPHAGNUM	TENELLUM
267	SPHAGNUM	PLATYPHYLLUM
268	TETRAPHIS	PELLUCIDA
269	THUIDIUM	RECOGNITUM
270	DRYOPTERIS	SIMULATA

271	ILEX	VERTICILLATA
272	ASTER	BOREALIS
273	BETULA	PUMILA
274	BRASERIA	SCHREBERT
275	CAREX	CHORDORRIZA
276	EPILOBIUM	LEPTOPHYLLUM
277	HABENARIA	BLEPHARIGLETTIS
278	HYDROCOTYLE	AMERICANA
279	HYPERICUM	BOREALE
280	JUNCUS	PELLOCARPUS
281	LYCOPODIUM	ANNOTINUM
282	MUHLENBERGIA	GLUMERATA
283	MUHLENBERGIA	UNIFLORA
284	MYRIOPHYLLUM	EXALBESCENS
285	RIBES	HIRTILLUM
286	SAGITTARIA	CUNEATA
287	SALIX	DISCOLOR
288	SALIX	PEDICELLARIS
289	SALIX	PYRIFOLIA
290	SCIRPUS	CYPERINUS
291	SCIRPUS	HUDSONIANUS
292	CHARA	FOETIDA

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