Phytosociological studies of mire ecosystems in eastern Canada

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PHYTOSOCIOLOGICAL STUDIES OF MIRE ECOSYSTEMS IN EASTERN CANADA

By

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VOLUME 2

PHYTOSOCIOLOGICAL TABLES

PHYTOSOCIOLOGICAL TABLE OUTPUT

(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 RELEVE NUMBERS ARE COLOUR-CODED ACCORDING TO MIRE TYPE: OMBROTROPHIC= YELLOW, TRANSITION=WHITE, RHEOTROPHIC= RED.

(6) THE RED DOTS BENEATH THE RELEVE NUMBERS INDICATE A MARITIME LOCATION. THE RELEVES WITHOUT RED DOTS ARE LOCATED IN CONTINENTAL AREAS.

THE RELEVES 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

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)

			NODAL DOMINANT
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0	
		0 4 4 5 6 6 6 6 6 7 7 7 7 8 9 9 2 6 2 0 0 4 6 6 6 7 7 8 8 9 9 0 0 2 3 6 7 4	
		4 1 6 9 5 5 7 8 9 1 1 4 9 8 2 5 3 4 6 2 2 9 5 6 7 6 8 4 5 7 9 3 6 2 7 4 9 0	
		1 2 4 8 0 6 1 2 6 0 7 4 4 4 1 1 6 3 1 2 9 6 8 2 4 6 7 7 4 9 8 2 2 9 3 6 7 5	
		• •	
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	1 1 2 1 + + 1 1 1 1 + 1 1 1 1 1 1 1 1 +	
12	BETU PAPY	+ +	
103	PINU BANK	1 2 1	
			COMPANIONS
1	ABIE BALS	1	
104	PINU STRO	1	
144	THUJ OCCI	+	

7 SPP

OMBROTROPHIC = 100%

VACCINIUM ANGUSTIFOLIUM-LEPIDOZIA REPTANS NODUM (TABLE 5)

• M = 66.7%

C = 33.3%

3 REL;

18 SPP (72% OCCUR ONLY ONCE)

			0	0	0	
			6	6	8	
			6	6	8	
			5	4	7	
			•	•		
NODAL CHARACTER	153	VACC ANGU	+	1	1	
	226	LEPI REPT	+	+	1	
ASSOCIATES	182	CLAD CONI		1	+	
	268	TETR PELL	+	+		
COMPANIONS	237	PLEU SCHR	–		1	
	210	DICR FUSC			+	
	236	PLAG LAET			+	
	242	PTIL CRIS			+	
	263	HYPO PHYS			+	
	43	CEPT TRIF	1			
	84	KALM ANGU	+			
	92	MAIA CANA	–			
	97	NEMO MUCR	–			
	102	PICE MARI	+			
	233	OCON SPHA	1			
	251	SPHA FUSC	1			
	1	ABIE BALS			1	
	186	CLAD FIMB			+	

18 SPP

OMBROTROPHIC = 100%

PLEUROZIUM SCHREBERI NODUM (TABLE 6)

- M = 63·6%
- C = 36·4%

11 REL;

45 SPP (42% OCCUR ONLY ONCE)

			0	0	0	0	0	0	0	0	1	0	
			6	3	5	6	6	8	7	6	8	0	8
			6	7	4	8	7	8	0	8	5	3	0
			1	5	6	5	6	6	0	4	0	4	0
			•	•	•	•	•		•	•			
HIRE CHARACTERS	39	CHAM CALY	1	2	2		1				+	+	
	156	VACC OXYC		1	+						+	+	+
	85	KALM POLI		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 ANGU	4	2	3	+	1	1	1	+	1		1
	87	LEDU GROE	+	1	1		1	1	1		+	1	+
VARIANTS	153	VACC ANGU	3	2	1	1	1	1			1	+	
	102	PICE MARI		+	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 CONI			+		+				+	+	
	37	CARE TRIS		+					1	1			
	199	CLAC RANG	+				+		+				
	214	DICR POLY	+				+			+			
	120	RUBU CHAM		1	+								
	186	CLAD FIMB					+				+		
	239	POHL SPHA								+		+	
	241	POLY STRI		+								+	
	242	PTIL CRIS				1			1				
	268	TETR PELL					+			+			

26 SPP

ALSC : (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 CONN	1034	189	CLAD GLAU	1034	193	DICR DRUM	886
209	DICR FLAG	800	212	DICR MAJU	375	213	DICR MONT	684
222	HYPN IMPO	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
			0	3	1	0	0	0	2	0
			9	4	7	3	0	5	7	1
			2	0	0	7	7	4	7	0
			•	•	•	•	•	•	•	•
HIKE CHARACTERS	39	CHAM CALY	1	1	+	1	+	1		
	47	DRCS RGTU	+		+		+		1	
	85	KALM PCLI		+		+	+			+
	126	SARR PURP			+			+	+	
	254	SPHA MAGE	1		+			+		
	262	SPHA RUBE		1		1				
NODAL DOMINANT	102	PICE MARI	5	5	5	5	4	4	5	5
ASSOCIATES	87	LEDU GRDE	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	+	3	+
	226	LEPI REPT	1	1	2	+	1		1	+
VARIANTS	172	CEPH CONN	1	+	+	+	+	+		
	261	SPHA RUSS		1	+	1	1	2		
	231	MYLI ANOM		+	+	1	+			
	158	VIBU CASS				+	+	+	+	+
	153	VACC ANGU			+	1		+	2	1
	237	PLEU SCHR	+	+	+	+			2	
	239	POHL SPHA	+	+	+	+				
	233	ODCN SPHA	+	+	+			+		
COMPANIONS	120	RUBU CHAM		+	+		1		+	2
	163	BAZZ TRIL	1		1		1		1	
	181	CLAD CHLO		+		+		+		+
	6	ARON PRUN				+	+	1		
	44	CORN CANA				+			1	+
	52	EMPE NIGR					1		+	1
	97	NEMO MUCR	+		+			+		
	115	RHOD CANA	1			+			1	
	191	CLAD GRAC			+				1	+
	192	CLAD IMPE			1				1	+
	199	CLAD RANG					+		1	1
	213	CICR 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 IMPO			+		1			

39 SPP

8 REL;

56 SPP (30% OCCUR ONLY ONCE)

ALSO : (17 SPP)

1	AEIE PALS	277	58	ERIO 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%
C = 36.4%

11 REL;
58 SPP (45% OCCUR ONLY ONCE)

			0	0	1	0	0	0	1	1	0	0	0
			5	8	1	5	5	3	1	0	5	5	3
			6	7	4	3	0	8	7	4	5	1	7
			8	6	7	0	8	1	7	9	0	8	2
			•			•	•	•			•	•	•
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					1	=				+	+
	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					+	+	1
	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 CALYCULATA-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
			•	•	•		•
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	+			+	1
	251	SPHA FUSC			+	2	2
	86	LARI LARI				+	+
	239	POHL SPHA				1	1
	230	MICR SETA			1	1	
	120	RUBU CHAM		1	+		
	163	VACC ANGU	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				

5 REL)

37 SPP (48% OCCUR ONLY ONCE)

37 SPP

KALMIA ANGUSTIFOLIA-CHAMAECAPHNE CALYCULATA NODUM (TABLE 10)

		0	1	0	0	0	0	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	3	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
85	KALM POLI	1	+	-	+	+	1			+	+	+		+	1	1	1	1		+	+				1
156	VACC CXYC	1	+		+	+				+	+	+		1	+	1	1	+							1
47	DRCS ROTL	-				+	+			+		+	+	+		1	+	+			+				1
262	SPHA RUBE	2								+		1	+	3		+	1	+							1
126	SARR PURP	+												1		+	1								+
135	SMIL TRIF						1		1																
39	CHAM 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			1	2	+	1	1	1	+	1	
233	CDCN SPHA	+	+		+	1	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
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		1	+		+	
237	PLEU SCHR	+	3		1	+		+	+		+			+	+										
102	PICE MARI		+	+	+	+					2	1	1												
226	LEPI REPT	+	+	+	+	+	+			+															
187	CLAD DEFO									+	1	+	+		+		+	+	1	+	+	2	2		
190	CLAD GONE										+	+	+	+		+		+			+	+	+		
232	CCHR 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							+	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											1							
211	DICR LEIC	1																1							
245	RICC LATI								+									+							

ALSC :

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	5 REL;
		1	1	5	4	5	
		9	0	4	5	6	
		9	3	1	3	4	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 = 100%

CLADONIA RANGIFERINA NODUM (TABLE 12)

M = 79%
C = 21%

81 REL.
101 SPP (19% OCCUR ONLY ONCE)

MIRE CHARACTER

NODAL DOMINANT

ASSOCIATES

VARIANTS

SUB-VARIANTS

COMPANIONS

82 SPP

ALSO : (19 SPP)

5	ARET BULB	14
37	CARE TRIS	667
162	AULA PALU	805
180	CLAD CENO	566
193	DICR DRUM	1239
224	LECI GRAN	600
281	LYCO ANNO	1244
16	CALO PULC	1294
67	GAUL HISP	653
163	BAZZ TRIL	606
188	CLAD FURC	120
214	DICR POLY	1239
240	POLY COMM	805
32	CARE PAUC	90
154	VACC BORE	90
164	BLEP TRIC	1085
190	CLAD GONE	600
215	DICR SCOP	669
266	SPHA TENE	233

OMBROTROPHIC = 95% TRANSITION = 5%

SPHAGNUM FUSCUM NODUM (TABLE 13)

144 REL;

86 SPP (14% OCCUR ONLY ONCE)

M = 42·4%
C = 57·6%

MISC CHARACTERS

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

MODAL DOMINANTS

251 SPHA FUSC
39 CHAM CALY

VARIANT

84 KALM ANGU
87 LEDU GROE

SUB-VARIANTS

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

COMPANIONS

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 MELA 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

74 SPP

ALSO : (125 SPP)

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
240	POLY COMM	826

OMBROTROPHIC = 100%

SPHAGNUM FUSCUM-CLADONIA RANGIFERINA NODUM (TABLE 14)

• M = 100%

12 REL;

60 SPP (28% OCCUR ONLY ONCE)

				0	0	0	0	0	0	0	0	0	0	0
				1	1	0	2	2	2	2	1	2	2	1	1
				9	5	8	7	8	5	9	1	8	7	9	9
				7	3	2	6	3	8	6	9	5	8	5	4
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	+	+	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 : (17 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						

OMBROTROPHIC = 84% TRANSITION = 13% ☐ RHEOTROPHIC: 3%

SPHAGNUM RUBELLUM–SPHAGNUM NEMOREUM NODUM (TABLE 15)

M = 59.2%
C = 40.8%

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

MIRE CHARACTERS

NODAL DOMINANTS

VARIANTS

COMPANIONS

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

68 SPP

ALSO : (39 SPP)

2	ACER RUBR	1145
17	CARE AQUA	36
24	CARE INTE	49
30	CARE PALE	36
44	CORN CANA	1252
73	HYPE VIRG	1154
91	LYSI TERR	1154
118	ROSA NITI	302
158	VIBU CASS	1252
189	CLAD GLAU	1084
196	CLAD PITY	1249
205	CLAD UNCI	139
250	SPHA FLAV	40
10	ASTE RADU	302
18	CARE BRUN	1154
25	CARE LASI	98
34	CARE ROST	1154
46	DROS INTE	338
89	LONI VILL	262
100	OSMU CINN	50
138	SPAR ANGU	27
161	VIOL PALL	1154
191	CLAD GRAC	1084
200	CLAD SQUA	139
223	LEPT TRIC	1154
253	SPHA IMBR	86
15	CALL PALU	86
19	CARE BULL	49
28	CARE NIGR	40
43	COPT TRIF	1252
48	DRYO CRIS	1154
90	LYCO UNIF	1154
103	PINU BANK	359
141	SPIR LATI	905
181	CLAD CHLO	1084
192	CLAD IMPE	1178
204	CLAD TERR	139
237	PLEU SCHR	673
277	HABE BLEP	862

OMBROTROPHIC 89% TRANSITION = 11%

RHYNCHOSPORA ALBA–CLADOPODIELLA FLUITANS NODUM (TABLE 16)

M = 68·2%
C = 31·8%

44 REL;
50 SPP (28% OCCUR ONLY ONCE)

			0 0 0 0 0 1 1 1 1 1 1 0	0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 0	0 0 1 1	0 0 0 0 0 0 0
			0 4 8 8 9 5 0 0 1 1 0 0 1	0 0 0 3 1 1 2 2 1 9 3 6 9 1 1 2 2 2 3 2	4 1 1 0	5 4 5 5 5 1 8
			1 7 7 8 1 4 0 4 2 2 4 3 0	1 1 5 3 1 7 9 2 5 6 3 2 7 2 2 1 4 9 0 7	7 7 6 9	4 3 1 5 5 9 6
			2 5 3 2 6 3 8 3 8 1 0 6 4	5 7 5 6 0 1 8 1 8 8 9 2 1 1 2 6 1 3 0 0	0 9 4 6	9 4 7 4 8 9 9
			• •	• • • • • • • • • • • • • • • • • • •	• •	• • • • • •
MIRE CHARACTERS	156	VACC OXYC	1 1 1 1 1 1 1 1 1 1 1	+ 1 + 1 + - + + + 1 1 + 1 1 + 1 1 2 1 1 1 1 +
	39	CHAM CALY	1 - + 1 + 1 + + + + 1	+ + + 1 1 1 1 + 1 + 1 + 1 + + +
	47	DROS ROTU	+ + - + + + 1 + 1 1	- + + + + + 1 1 + + 1 1 + + +
	262	SPHA RUBE	+ 1 + 1 + 1 + + +	+ + + + 1 1 + + +
	254	SPHA MAGE 1	+ + + + 1	+ + + + + + + + +
	126	SARR PURP	+ 1 -	+ - 1 - + 1
	85	KALM POLI	+ + -	+ + + +
	135	SMIL TRIF	1 1
NODAL DOMINANTS	207	CLAD FLUI	5 1 1 5 5 5 5 5 5 5 5 5 5 4 5 4 5 5 5 3 5 5 5 5 5 4 5 5 5 4 5 5 5 5 5 5 5 5 5 1
	116	RHYN ALBA	2 2 1 2 2 1 2 1 2 2 1 1 1 1 3 2 1 2 2 2 4 1 2 2 1 1 1 1 1 1 1 1 1 2 2 1 3 1 1 2
Dataset Limited VARIANTS	147	UTRI CORN	1 2 1 1 1 1 1 1 3 2 1 1 1 4 2 4 1
	155	VACC MACR	1 2 1 2 1 + 2 1 1 2 2 2 1 1 +
	46	DROS INTE	1 + 1 + 2 + 1 - 1 + 1 1 2 + 2 3 2 1 1 1 2 1 2 + 1 + 1
	247	SPHA CUSP 3 +	+ 4 1 1 4 + + 1 1 1 1 2 2 1 2 1 + 1 + 2 2 1 2 5
	26	CARE LIMO	1 1 1 2 2 + 1 1
	33	CARE PAUP	- 1 + + + 1
COMPANIONS	4	ANDR GLAU	+ 1 + 1 + 1 1 + + + 1 - - + + + + 1 1 +
	62	ERIO VIRG +	+ 1 1 + + 1 1 + + 1 + + 1
	45	DROS ANGL	2 1 1 1 1 1 1 1 1 1 1
	258	SPHA PULC -	1 2 1 1 2 3 4 1 1
	257	SPHA PAPI	+ + 2 + + 4 + 1 +
	233	ODON SPHA +	1 1 + + + + +
	60	ERIO SPIS	1 + 1 1 1
	129	SCIR CESP	+ + - 1 +
	255	SPHA MAJU	+ 2 + + -
	266	SPHA TENE	2 1 + 1 2
	8	ASTE NEMO	+ - + +
	78	JUNC BREV	+ 1 1 +
	88	LITT AMER	+ + 1 2
	203	XYRI MONT	1 1 + 1
	218	DREP FLUI	+ 4 4 1
	95	MYRI GALE	+ 1 +
	175	CETR ERIC	1 -
	200	CLAD SQUA 1	+
	217	DREP EXAN	1 1
	280	JUNC PELO	+ +

36 SPP

ALSO : (14 SPP)

16	CALC PULC	179	21	CARE EXIL	1300	28	CARE NIGR	12
30	CARE PALE	104	79	JUNC BUFO	549	120	RUBU CHAM	475
127	SCHE PALU	916	150	UTRI INTE	270	176	CETR ISLA	298
192	CLAD IMPE	110	246	SPHA ANGE	270	256	SPHA NEMO	293
259	SPHA PYLA	1300	283	MUHL UNIF	1300			

OMBROTROPHIC = 50% TRANSITION = 29% RHEOTROPHIC = 21%

NUPHAR VARIEGATUM NODUM (TABLE 17)

M = 66%
C = 34%

106 REL;
57 SPP (31% OCCUR ONLY ONCE)

MIRE CHARACTERS

NODAL DOMINANT

Dataset Limited VARIANTS AND SUB-VARIANTS

COMPANIONS

39	CHAM CALY	
254	SPHA MAGE	
98	NUPH VARI	
131	SCIR SUBT	
148	UTRI GEMI	
99	NYMP ODOR	
57	ERIO SEPT	
94	MENY TRIF	
152	UTRI VULG	
140	SPAR MULT	
139	SPAR FLUC	
225	SPAR ANDR	
292	CHAR FOET	
247	SPHA CUSP	
207	CLAD FLUI	
116	RHYN ALBA	
259	SPHA PYLA	
4	ANDR GLAU	
255	SPHA MAJU	
95	MYRI GALE	
26	CARE LIMO	
55	EQUI FLUV	
109	POTA OAKE	
151	UTRI MINO	
46	DROS INTE	
78	JUNC BREV	
150	UTRI INTE	
218	DREP FLUI	
257	SPHA PAPI	
13	CALA CANA	
15	CALL PALU	
106	POTA CONF	
107	POTA EPIH	
108	POTA FILI	
127	SCHE PALU	
217	DREP EXAN	
219	FONT ANTI	
258	SPHA PULC	
284	MYRI EXAL	

39 SPP.

ALSO: (18 SPP)

17	CARE AQUA	812	21	CARE EXIL	260	34	CARE ROST	76
61	ERIO TENE	343	81	JUNC MILI	260	85	KALM POLI	1053
110	POTA NATA	990	112	POTE PALU	1078	114	RHAM ALNI	967
128	SCIR ACUT	985	135	SMIL TRIF	343	138	SPAR ANGU	251
146	TYPH LATI	264	155	VACC MACR	1081	195	SPAR CHLO	989
234	PALL LYEL	259	274	BRAS SCHR	1055	286	SAGI CUNE	989

EUTROPHIC : 64% TRANSITION =35% RHEOTROPHIC = 1%

SPHAGNUM CUSPICATUM NCDUM (TABLE 18)

M = 55.2%
O = 44.8%

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

ALSO : [illegible]

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

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

SPP

TRANSITION = 100%

SPHAGNUM MAJUS NODUM (TABLE 19)

• M = 75%

C = 25%

16 REL;

31 SPP (26% OCCUR ONLY ONCE)

			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
			•	•	•	•			•	•	•	•	•	•			•	•
HIRE CHARACTERS	156	VACC OXYC	+		+		–	–							+		1	2
	47	DRCS ROTU	+		+	+	+				–						+	
	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
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 OLIG										2	+	1	2	2		
COMPANIONS	33	CARE PAUP			1	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	CLAD FLUI	1		2									2				
	20	CARE CANE		+		+												
	25	CARE LASI					1			1								
	46	DROS INTE									–			1				
	50	DULI ARUN								1		1						
	61	ERIO TENE								+			1					
	95	MYRI GALE										1	–					
	218	DREP FLUI									1						+	
	257	SPHA PAPI				+	1											
	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 = 18%   TRANSITION = 80%   ☐ RHEOTROPHIC 2%

SPHAGNUM PULCHRUM NODUM (TABLE 20)

o M = 66.7%

C = 33.3%

51 REL; 73 SPP. (35% OCCUR ONCE ONLY)

			0698	0502	0694	0692	0693	0218	1298	0134	0235	0255	0287	0288	0206	0147	0177	0273	1089	0611	0584	0596	0957	0349	0954	0955	0729	0827	1058	0319	0364	0580	0590	0781	0783	0786	0790	0828	0833	0888	0890	0011	0101	0385	0265	0900	0304	0213	0389	0678	0677	0725	0150
			o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o		o	o	o		o						o	o	o	o									o	o	o	o		o	o	o	o	o		o
MIRE CHARACTER	39	CHAM CALY	2	2	1		1	1			+					-			1				3	1	-		1		1		3	+	2			1	1			+	1	1		2					1	+	2	1	1
	156	VACC OXYC	1		+		+	+		1						+			1					1			1	+	1	1		2	+		1	1	1	1	1	1	+	1					+		+			1	1
	47	DROS ROTU	+					+		1	1	1	+	+	+		-	+		-	1	+		1								1										+		+			+		+			1	+
	254	SPHA MAGE	2	+	2	2	2	+		+	+							1	1										1							1	+			+	+	-		+					1	+		2	
	85	KALM POLI	1		+					-																	1				1		1	1		+	1	+				1		+					+			1	+
	126	SARR PURP						+		+	1				-		-		+					+		-	-															1		1					+	2	2		
	262	SPHA RUBE		1				1		1	+	1	1		+				1													1												1				1	1				1
	135	SMIL TRIF		1	1	1	1		+						1	1	2		2								1																1					2					2
	58	ERIO ANGU					-									+		-													1			1	1	1	+	+															
NODAL DOMINANT	258	SPHA PULC	4	5	4	4	4	5	5	5	5	5	5	5	4	5	5	5	4	5	4	5	5	5	5	5	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	4	5	4	5	5	4	4
VARIANTS	17	CARE AQUA															+																									2	1	2									
	25	CARE LASI																																											2	1	3	+					
	34	CARE ROST																																													1	2	2				
	116	RHYN ALBA								1	1	1	1	1	1	1	+	1	1	-				+																													
	21	CARE EXIL						+	2	1	+	1	1	1																																							
	84	KALM ANGU	+	1	+	1		+																								+																					
	87	LEDU GROE	3	1	1	+	1	+																																													
	36	CARE STRI			3	3	2	2							+																																						
	29	CARE OLIG																	+								1	+	1	2	1	2	2	2	2	2	2	2	2	2	2												
	26	CARE LIMO																					1	1	1	1	1	2	1	1																							
	127	SCHE PALU					+												1	1	1	1		2	+	+	1	1																									
COMPANIONS	4	ANDR GLAU						+	+	1	1		1		+	-			1	-				+		2	+	1	1		2	+	+														+	1	1		+	1	
	257	SPHA PAPI						1						1	1			+	1					+					2				+									1			1		1	1	+				2
	95	MYRI GALE						1	1					1			+			1													1											1		1			1	4	3	2	
	33	CARE PAUP				1	+										+	+		1	1	2																															+
	155	VACC MACR								1	2		1	+				1																																4	2		
	207	CLAD FLUI					+			1	2		3					1			+			1																													
	46	DROS INTE								+			1		+			+		1	1																																
	233	ODON SPHA	1							3	+																					2												+									
	266	SPHA TENE									+	1	1					+																								1											
	231	MYLI ANOM	+	+				+		+																																											
	247	SPHA CUSP											1												1	1			1																								
	255	SPHA MAJU																		1	2			+				1																									
	6	ARON PRUN						+		-	+																																										
	62	ERIO VIRG	+																																															1	+		
	94	MENY TRIF												1													2																									1	
	129	SCIR CESP								1	1	+																																									
	153	VACC ANGU		+	1	+																																															
	230	MICR SETA		+						1																						1																					

39 SPP

ALSO : (34 SPP)

8	ASTE NEMO	265	304
14	CALA PICK	265	
31	CARE PANI	304	
51	ELEO CALV	304	
60	ERIO SPIS	698	580
78	JUNC BREV	273	
97	NEMO MUCR	502	
147	UTRI CORN	134	
178	CLAD ARBU	134	
217	DREP EXAN	349	
241	POLY STRI	828	
256	SPHA NEMO	235	
10	ASTE RADU	304	
15	CALL PALU	596	611
32	CARE PAUC	693	
53	EPIL PALU	265	
70	GEOC LIVI	694	
86	LARI LARI	783	
118	ROSA NITI	218	304
168	CALL STRA	304	
192	CLAD IMPE	287	
218	DREP FLUI	584	611
248	SPHA RECU	319	
11	BETU GLAN	725	790
20	CARE CANE	150	206
43	COPT TRIF	502	
55	EQUI FLUV	265	
76	IRIS VERS	101	
93	MELA LINE	502	
137	SOLI ULIG	218	
172	CEPH CONN	698	
216	DICR UNDU	134	
239	POHL SPHA	385	
251	SPHA FUSC	385	502

OMBROTROPHIC · 8%   TRANSITION = 82%   ☐ RHEOTROPHIC 10%

SPHAGNUM PAPILLOSUM NODUM (TABLE 21)

• M = 54.9%

C = 45.1%

51 REL

76 SPP

(29% OCCUR ONLY ONCE)

			0455	0519	0156	0176	0184	1163	1102	0448	0217	0185	0390	1059	1051	0944	1273	1087	1057	1054	1133	1275	1182	1008	1077	1064	0586	0587	0589	0609	0615	0630	0723	0733	0933	1076	0731	1284	0728	0020	0100	0140	0205	1213	1214	1217	0142	0259	0633	0636	0642	0635	1197
			•	•	•	•	•			•	•	•	•														•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•
NODE CHARACTERS	39	CHAM CALY			1		+	+					1	2	1	+	1	-	1	2	1	2	+	1	1	2	1	3	1	3						1	1	1	+	1	1	2		+	1	1				1	1	1	1
	156	VACC OXYC			+	+	1	+	1	+		1		1		+		+		1	1		1	1		1	1	1	1	1		1	+	1			1		+		2			+				+	1	1	1	1	1
	47	DROS ROTU		+	+	+	+	1		+	+	+	+	+			+	-		+						+	1		+		-	1					-				1	+		+			+	+	1	1	+	+	
	254	SPHA MAGE	+	1	1		+		-			+		1			1	1		1	1		2	1		1							1	+	1		+	+	1														
	126	SARR PURP			+	1	+					+	-							-					+							1		1		-	+	+			+	+					+	+	1	1		1	
	85	KALM POLI			1		+					+		1								1				-				+			+	+					+			1							+	1	1	1	
	262	SPHA RUBE						2		+	+	+			-		+	1			1		+											2												+		1			2	1	
	135	SMIL TRIF			1	2			1			2		1						+						1								+	+			1			2								1				1
	248	SPHA RECU					1							1							+	1													2						1			1	2	1							1
	58	ERIO ANGU							1								+																																				
NODAL DOMINANT	257	SPHA PAPI	5	5	5	5	4	4	4	5	5	5	5	4	5	5	5	5	5	4	5	5	4	5	5	5	4	5	4	5	5	4	5	4	4	5	5	5	5	5	5	4	5	5	4	5	5	5	5	4	4	5	5
VARIANT	4	ANDR GLAU								+			1	1		1	1	1	+	1		2	1	1	1	+	1	+	+	+		+	+	1	2				1			1					+		1	+	1	1	
	95	MYRI GALE											1				1								1		1	1	1	3		1				1		+		2	1	1	1	-	1	3			1	1	2	2	
	258	SPHA PULC							1		1	1	1	2				1		2				1		1	2		1		+	2		1			1		+			+					1	+	1	1			
SUB-VARIANTS	247	SPHA CUSP	1	+		+	1	1	1	+		+	1	+	1	1	+		+	+																																	
	116	RHYN ALBA			+	1	3	1			1	+		1	1	1	+	1	+	-	-																				+												
	25	CARE LASI																																		1	1	2	2														
	17	CARE AQUA																																						1	1	1	2										
	18	CARE BRUN																																										3	1	1							
	29	CARE OLIG											2	-			1	-	1	+		1		2		1		2	1	2	1							+											+	+			
	26	CARE LIMO												+	1	1		+	1	1	1		2		1								2	1	1	1	1																
	127	SCHE PALU															1	1	1	1	1		1	+			1				1	+	1		1		1												+				
	21	CARE EXIL																																													2	2	+	+	+	+	
	129	SCIR CESP																																																2	3	3	
COMPANIONS	33	CARE PAUP	1	1	2	+	+			2		1															1		2		1	1																	1				
	155	VACC MACR								+							1								1											1				1			+	-	4		+	+					
	8	ASTE NEMO																																				1		1	1		+					+			1	1	
	62	ERIO VIRG							1					1		1				+						1										-																	
	94	MENY TRIF															1								1							1		1					2										1				
	255	SPHA MAJU																										1	+		1											1							+	1			
	73	HYPE VIRG			+																																	1		+						+							
	86	LARI LARI												1						+						+																								1			
	241	POLY STRI																																										+		+						+	2
	246	SPHA ANGE															1																																1	1	+		
	3	ALNU RUGO			1																																				1	+											
	15	CALL PALU															1											1								1																	
	32	CARE PAUC												1												1																								1			
	34	CARE ROST																							1											1											+						
	60	ERIO SPIS	1					-																																				+									
	78	JUNC BREV				+	+				+																																										
	168	CALL STRA			1																							1																		+							
	10	ASTE RADU																																																	1	+	
	11	BETU GLAN																																					-												2		
	13	CALA CANA			+																																						+										
	14	CALA PICK																																				+										1					
	45	DROS ANGL	+	1																																																	
	76	IRIS VERS			+																																				+												
	84	KALM ANGU																								1																											1
	125	SANG CANA																																																	1	2	
	137	SOLI ULIG			+																																				1												
	145	TRIE BORE																																																	1	1	
	207	CLAD FLUI		1				1																																													
	231	MYLI ANOM																																																	+	+	
	233	ODON SPHA																										+																								+	

54SPP

ALSO : (22SPP)

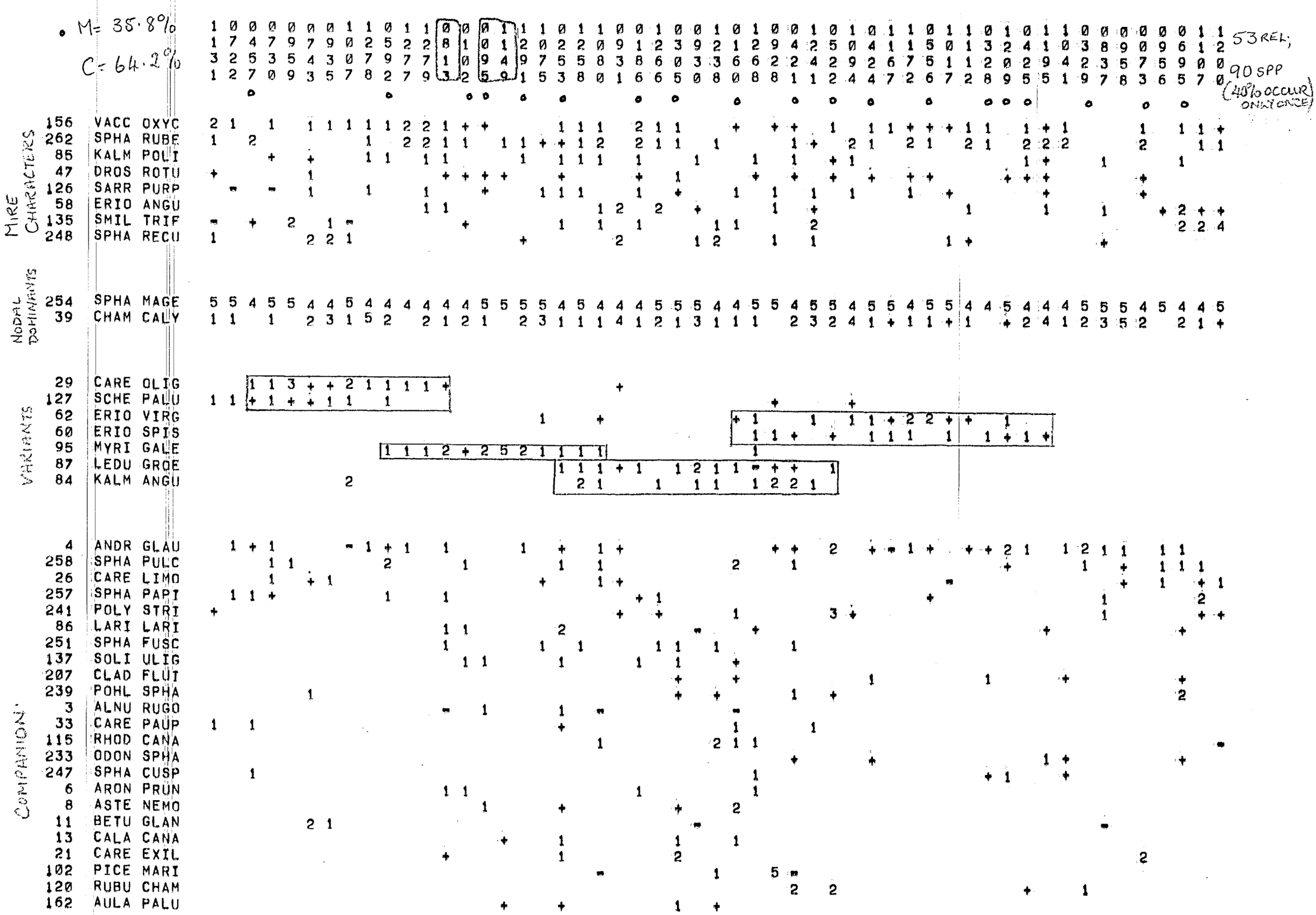
9	ASTE NOVI	20	27	CARE MICH	733	36	CARE STRI	217
37	CARE TRIS	1217	43	COPT TRIF	635	50	DULI ARUN	1273
53	EPIL PALU	205	80	JUNC FILI	1197	89	LONI VILL	635
91	LYSI TERR	20	102	PICE MARI	1064	115	RHOD CANA	1197
141	SPIR LATI	1284	142	SPIR TOME	20	146	TYPH LATI	1217
217	DREP EXAN	448	218	DREP FLUI	586	240	POLY COMM	185
250	SPHA FLAV	1273	273	BETU PUMI	1217	288	SALI PEDI	728
291	SCIR HUDS	733						

OMBROTROPHIC = 38% TRANSITION = 56% RHEOTROPHIC = 6%

SPHAGNUM MAGELLANICUM NODUM (TABLE 22)

M = 35.8%
C = 64.2%

53 REL;
90 SPP
(40% OCCUR ONLY ONCE)



40 SPP

ALSO : (50 SPP)

2	ACER RUBR	1149			5	ARET BULB	95		9	ASTE NOVI	253	
10	ASTE RADU	305			12	BETU PAPY	1149		14	CALA PICK	305	
17	CARE AQUA	102	813		18	CARE BRUN	253		23	CARE FOLL	253	
25	CARE LASI	95	722	730	28	CARE NIGR	186		31	CARE PANI	305	
32	CARE PAUC	253			34	CARE ROST	1149		36	CARE STRI	1291	
37	CARE TRIS	160	1238		48	DRYO CRIS	1149		49	DRYO THEL	1149	
53	EPIL PALU	102			67	GAUL HISP	1238		76	IRIS VERS	160	
89	LONI VILL	253			90	LYCO UNIF	160	1149	91	LYSI TERR	160	
94	MENY TRIF	730			100	OSMU CINN	160		111	POTE FRUT	253	305
116	RHYN ALBA	1041			118	ROSA NITI	102	305 813	121	RUBU HISP	102	
133	SENE AURE	253			141	SPIR LATI	1149	813	143	THAL POLY	253	
145	TRIE BORE	160			153	VACC ANGU	1238		159	VIOL BLAN	253	
161	VIOL PALL	160	305		168	CALL STRA	160	253	169	CALL CORD	1149	
178	CLAD ARBU	160			217	DREP EXAN	1278	457	221	HYLO SPLE	160	
222	HYPN IMPO	160			223	LEPT TRIC	1149		230	MICR SETA	305	1196
231	MYLI ANOM	305	695	421	234	PALL LYEL	253	305	237	PLEU SCHR	160	1238
250	SPHA FLAV	73			261	SPHA RUSS	813					

RHEOTROPHIC - 15% OMBROTROPHIC = 36% TRANSITION = 49%

SPHAGNUM RECURVUM NODUM (TABLE 23)

M = 17%
C = 83%

47 RELS
100 SPP
(43% OCCURS ONLY ONCE)

				MIRE CHARACTERS
156	VACC	OXYC		
254	SPHA	MAGE		
39	CHAM	CALY		
85	KALM	POLI		
135	SMIL	TRIF		
58	ERIC	ANGU		
126	SARR	PURP		
262	SPHA	RUBE		
47	DRCS	ROTU		
				NODAL DOMINANT
248	SPHA	RECU		
				VARIANTS AND SUB-VARIANTS
29	CARE	CLIG		
87	LEDU	GROE		
251	SPHA	FUSC		
237	PLEU	SCHR		
95	MYRI	GALE		
257	SPHA	PAPI		
36	CARE	STRI		
288	SALI	PEDI		
198	DREP	UNCI		
273	BETU	PUMI		
				COMPANIONS
4	ANDR	GLAU		
26	CARE	LIMO		
84	KALM	ANGU		
86	LARI	LARI		
239	POHL	SPHA		
11	BETU	GLAN		
32	CARE	PAUC		
127	SCHE	PALU		
3	ALNU	RUGO		
21	CARE	EXIL		
13	CALA	CANA		
60	ERIO	SPIS		
61	ERIC	TENE		
6	ARCN	PRUN		
17	CARE	AQUA		
62	ERIC	VIRG		
89	LONI	VILL		
102	PICE	MARI		
233	CDCN	SPHA		
241	POLY	STRI		

40 SPP

ALSC : (60 SPP)

2	ACER	RUBR	1242	
18	CARE	BRUN	1151	345
33	CARE	PAUP	1135	
38	CARE	VESI	631	
65	GALI	TINC	188	
70	GECC	LIVI	1029	
90	LYCC	UNIF	1151	
93	MELA	LINE	648	
100	OSMU	CINN	1242	
118	ROSA	NITI	908	
125	SANG	CANA	346	
142	SPIR	TOME	188	
145	TRIE	BORE	907	
158	VIBU	CASS	1029	
162	ALLA	PALU	648	849
182	CLAD	CONI	1242	
209	DICR	FLAG	1242	
231	MYLI	ANOM	1000	320
253	SPHA	IMBR	1231	1226
276	EPIL	LEPT	907	
8	ASTE	NEMC	188	631
20	CARE	CANE	188	
34	CARE	ROST	1185	1151
49	CRYC	THEL	1151	
67	GAUL	HISP	849	
73	HYPE	VIRG	1151	
91	LYSI	TERR	188	1151
94	MENY	TRIF	347	
115	RHOD	CANA	1231	1226
120	RUBU	CHAM	648	
129	SCIR	CESP	631	
143	THAL	POLY	907	908
153	VACC	ANGU	648	
159	VIOL	BLAN	907	908
169	CALL	CORD	1231	
199	CLAD	RANG	1242	
223	LEPT	TRIC	1151	
234	PALL	LYEL	1151	
272	ASTE	BORE	907	908
277	HABE	BLEP	918	
15	CALL	PALU	345	
23	CARE	FOLL	188	
37	CARE	TRIS	346	849
53	EPIL	PALU	1151	
69	GAYL	DUMO	1242	
76	IRIS	VERS	1226	1151
92	MAIA	CANA	1030	1029
97	NEMO	MUCR	648	849
116	RHYN	ALBA	631	
122	RUBU	PUBE	907	908
137	SOLI	ULIG	1031	
144	THUJ	OCCI	346	
154	VACC	BORE	849	
160	VIOL	CUCU	188	
172	CEPH	CONN	1000	
207	CLAD	FLUI	631	
226	LEPI	REPT	1242	
247	SPHA	CUSP	752	
275	CARE	CHOR	838	839
280	JUNC	PELC	1135	

OMBROTROPHIC = 50% RHEOTROPHIC = 50%

SPHAGNUM RUSSOWII NODUM (TABLE 24)

M = 50%
C = 50%

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

4 REL;
39 SPP (59% OCCUR ONLY ONCE)

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

TRANSITION = 26% ☐ RHEOTROPHIC = 74%

CALAMAGROSTIS CANADENSIS-MYRICA GALE NODUM (TABLE 25)

• M = 63.9%
C = 36.1%

61 REL;
136 SPP (32% OCCUR ONLY ONCE)

MARSH CHARACTERS

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

MODEL CHARACTERS

13	CALA CANA	1 1 1 1 2 1 + 1 1 1 + 1 1 1 1 + + 1 5 1 2 1 + 1 +
95	MYRI GALE	+ 1 1 1 3 2 2 2 1 1 1 + 2 1 1 3 2 1 1 +
73	HYPE VIRG	– + 1 + + + + 1 1 1 1 +

Distal Limit VARIANTS AND SUB-VARIANTS

33	CARE PAUP	4 4 4 4 3 1 3 1 2 4 + 1 1 1
94	MENY TRIF	+ 2 1 1 1 4 4 4 3 3 1 4 3 1 4 3 –
26	CARE LIMO	3 3 4 3 1 4 2 2 1 1
217	DREP EXAN	+ + 1 1 1 1 1 1 + 1 1 1
30	CARE PALE	2 1 2 3 2 3 3 1 2
25	CARE LASI	2 2 3 2 5 2 3 3 2 1 1 1
3	ALNU RUGO	– 1 1 + 1 1 – 1 + + + +
17	CARE AQUA	5 5 4 5 5 5 5 3 3 2 2
141	SPIR LATI	1 1 1 1 + + + + + 1 1 1
36	CARE STRI	+ 1 3 4 4

COMPANIONS

76	IRIS VERS	– + + 1 + + 2 + + 1 +
91	LYSI TERR	+ + + 1 + 2 1 2 + +
46	DROS INTE	1 + 1 1 + +
65	GALI TINC	+ 2 1 1 1 1 + 2 1
90	LYCO UNIF	+ + + 1 1 + 1 +
112	POTE PALU	+ + 2 2 1 1 1 2 +
258	SPHA PULC	1 2 + + 1 2 + 1
255	SPHA MAJU	– + + 1 2 + 3 1
8	ASTE NEMO	– 1 + + 1 1 –
21	CARE EXIL	1 1 1 4 1 2 3
4	ANDR GLAU	1 + 1 1 1 –
38	CARE VESI	1 1 2 1 4 4
53	EPIL PALU	1 + – 1 1 +
143	THAL POLY	1 + 1 2 1 1
170	CAMP STEL	1 1 2 1 2 1
20	CARE CANE	– 1 + 2 1
34	CARE ROST	3 4 2 1 3
40	CICU BULB	1 + + – +
55	EQUI FLUV	– 1 1 + +
123	RUME ORBI	+ + + + 1 1
150	UTRI INTE	2 3 2 2 5
155	VACC MACR	+ 1 + 1 +
161	VIOL PALL	1 + + 1 1
18	CARE BRUN	– 2 + 1
49	CRYO THEL	1 3 1 1
134	SIUM SUAV	+ 1 – 1
167	BRYU PSEU	+ – 1 +
6	ARCN PRUN	+ + +
15	CALL PALU	2 4 2
27	CARE MICH	1 1 2
28	CARE NIGR	– + +
59	ELEO SMAL	+ + 5
66	GALI TRIF	+ + +
78	JUNC BREV	+ + +
101	OSMU REGA	– 2 2
116	RHYN ALBA	+ 1 1
127	SCHE PALU	1 + +
130	SCIR RUBR	+ 1 +
137	SCLI ULIG	+ 1 1
147	UTRI CORN	4 2 1
152	UTRI VULG	2 1 +
169	CALL CORD	1 + 1
207	CLAD FLUI	1 2 +
223	LEPT TRIC	1 + +
257	SPHA PAPI	1 1 1
288	SALI PEDI	1 2 2
7	ASTE CREN	+ 1
9	ASTE NOVI	1 +
48	DRYO CRIS	– +
50	DULI ARUN	5 5
71	GLYC CANA	– +
75	IMPA CAPE	1 +
77	JUNC BALT	+ 1
82	JUNC STYG	+ 1
86	LARI LARI	– +
111	POTE FRUT	1 2
118	ROSA NITI	1 1
125	SANG CANA	2 +
128	SCIR ACUT	2 –
136	CLIM DEND	1 1
140	SPAR MULT	+ 1
148	UTRI GEMI	1 1
160	VIOL CUCU	2 1
162	AULA PALU	1 +
235	PELL EPIP	1 +
247	SPHA CUSP	1 2
249	SPHA FIMB	– 1
253	SPHA IMBR	1 1
259	SPHA PYLA	2 +
265	SPHA SUBS	+ +
267	SPHA PLAT	1 +

92 SPP

ALSO : (44 SPP)

10	ASTE RADU	303
11	BETU GLAN	809
14	CALA PICK	303
29	CARE OLIG	637
31	CARE PANI	306
35	CARE SALI	61
41	CICU MACU	442
63	EUPA MACU	116
64	GALI PALU	439
69	GAYL DUMO	303
81	JUNC MILI	267
87	LEDU GROE	303
98	NUPH VARI	991
107	POTA EPIH	991
109	POTA OAKE	306
117	RHYN FUSC	632
124	SALI RIGI	116
131	SCIR SUBT	88
132	SCIR VALI	117
153	VACC ANGU	816
159	VIOL BLAN	901
168	CALL STRA	303
172	CEPH CONN	303
195	SPAR CHLO	991
197	PLAG DENT	1153
211	CICR LEIO	303
218	DREP FLUI	638
222	HYPN IMPO	303
226	LEPI REPT	303
230	MICR SETA	303
231	MYLI ANOM	303
233	ODON SPHA	303
234	PALL LYEL	303
237	PLEU SCHR	303
244	SPHA PALU	1153
254	SPHA MAGE	303
260	SPHA RIPA	612
262	SPHA RUBE	303
264	SPHA SQUA	486
278	HYDR AMER	1068
284	MYRI EXAL	991
286	SAGI CUNE	991
287	SALI DISC	906
289	SALI PYRI	906

TRANSITION = 33% ☐ RHEOTROPHIC = 67%

MYRICA GALE–CHAMAEDAPHNE CALYCULATA (FEN) NODUM (TABLE 26)

• M = 57.1%
C = 42.9%

36 REL.
115 SPP (35% OCCUR ONLY ONCE)

MIRE CHARACTERS	47	DRCS	RCTU
	248	SPHA	RECU
	85	KALM	POLI
	156	VACC	OXYC
	126	SARR	PURP
	254	SPHA	MAGE
NODAL DOMINANTS	95	MYRI	GALE
	39	CHAM	CALY
DOMINANTS	17	CARE	AQUA
	111	POTE	FRUT
	53	EPIL	PALU
	21	CARE	EXIL
	22	CARE	FLAV
	114	RHAM	ALNI
	63	EUPA	MACU
	124	SALI	RIGI
	87	LEDU	GROE
	153	VACC	ANGU
	84	KALM	ANGU
	34	CARE	ROST
	218	DREP	FLUI
	8	ASTE	NEMO
	265	SPHA	SUBS
	142	SPIR	TCME
	112	POTE	PALU
	75	IMPA	CAPE
COMPANIONS	141	SPIR	LATI
	13	CALA	CANA
	76	IRIS	VERS
	160	VIOL	CUCU
	4	ANDR	GLAU
	73	HYPE	VIRG
	155	VACC	MACR
	3	ALNU	RUGO
	20	CARE	CANE
	65	GALI	TINC
	217	DREP	EXAN
	90	LYCO	UNIF
	6	ARCN	PRUN
	18	CARE	BRUN
	36	CARE	STRI
	101	OSMU	REGA
	119	RCSA	VIRG
	170	CAMP	STEL
	49	DRYC	THEL
	89	LCNI	VILL
	137	SOLI	ULIG
	9	ASTE	NCVI
	25	CARE	LASI
	50	DULI	ARUN
	91	LYSI	TERR
	115	RHOD	CANA
	118	RCSA	NITI
	122	RUBU	PUBE
	24	CARE	INTE
	29	CARE	OLIG
	37	CARE	TRIS
	74	ILEX	GLAB
	123	RUME	ORBI
	143	THAL	PCLY
	161	VICL	PALL
	167	BRYU	PSEU
	168	CALL	STRA
	207	CLAD	FLUI
	216	DICR	UNDU
	227	LOPH	HETE
	231	MYLI	ANOM
	235	PELL	EPIP
	237	PLEU	SCHR
	247	SPHA	CUSP
	253	SPHA	IMBR
	255	SPHA	MAJU
	258	SPHA	PULC
	267	SPHA	PLAT

74 SPP

ALSO : (41 SPP)

2	ACER	RUBR	985
23	CARE	FOLL	252
30	CARE	PALE	444
46	DROS	INTE	18
55	EQUI	FLUV	1071
61	ERIO	TENE	1071
66	GALI	TRIF	1071
83	JUNI	COMM	69
133	SENE	AURE	252
162	AULA	PALU	68
226	LEPI	REPT	1280
257	SPHA	PAPI	593
264	SPHA	SQUA	66
272	ASTE	BORE	965
7	ASTE	CREN	444
26	CARE	LIMO	444
33	CARE	PAUP	593
48	DRYO	CRIS	69
56	EQUI	SYLV	252
62	ERIO	VIRG	679
71	GLYC	CANA	1072
86	LARI	LARI	18
158	VIBU	CASS	965
172	CEPH	CONN	67
243	SPHA	WARN	965
261	SPHA	RUSS	398
269	THUI	RECC	965
285	RIBE	HIRT	965
15	CALL	PALU	614
27	CARE	MICH	21
42	CLIN	BORE	252
54	EQUI	ARVE	68
58	ERIO	ANGU	899
64	GALI	PALU	965
72	GLYC	GRAN	252
105	POLY	AMPH	1071
159	VIOL	BLAN	965
221	HYLO	SPLE	252
252	SPHA	GIRG	68
262	SPHA	RUBE	593
271	ILEX	VERT	1285

RHEOTROPHIC = 100%

SPHAGNUM WARNSTORFII NODUM (TABLE 27)

C = 100%

6	1	0	3 REL;
9	9	9	
6	6	6	
1	2	6	30 SPP (46% OCCUR ONCE ONLY)

MIRE CHARACTER	39	CHAM CALY	1	1
NODAL DOMINANT	243	SPHA 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	LONI VILL	-	1 1
	141	SPIR LATI	+	1 1
	143	THAL POLY	1	1 1
	272	ASTE BORE	1	+ 2
COMPANIONS	13	CALA CANA		+ +
	102	PICE MARI		- +
	118	ROSA 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 PALL	1	
	170	CAMP STEL	+	
	282	MUHL GLOM		1
	285	RIBE HIRT		1

30 SPP

RHEOTROPHIC = 82% TRANSITION = 18%

SPHAGNUM FIMBRIATUM NOCUM (TABLE 28)

o M = 100%

11 REL;

42 SPP (47% OCCUR ONLY ONCE)

			C	O	C	O	O	O	O	O	O	O	O
			1	4	4	1	1	4	4	4	4	4	4
			5	9	9	7	7	8	8	9	8	9	8
			1	4	3	4	3	2	3	5	7	1	5
			o	o	o	o	o	o	o	o	o	o	o
MIRE CHARACTER	47	DROS ROTU	+	1	+	1	+			1	1		
	156	VACC CXYC		1	+			2	2	1	1		
	39	CHAM CALY	1	4	4					3			
	262	SPHA RUBE				+	+						
NODAL DOMINANT	249	SPHA FIMB	5	5	5	4	5	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						1	2						
	116	RHYN ALBA						2	1						
	155	VACC MACR						3	1						
	4	ANDR GLAU						+	+						
	8	ASTE NEMO						1	1						
	16	CALO PULC						+	+						
	129	SCIR CESP						1	-						
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	RHOD 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)

- M = 86%
- C = 14%

	0	0	1	0	0	0	0	7 REL;
	1	3	1	2	4	4	9	
	3	9	5	0	8	8	8	
	0	6	2	3	4	9	4	4 SPP (50% OCCUR ONLY ONCE)
	o	o		o	o	o	o	

		NODAL DOMINANT						
3	ALNU RUGO	5	5	5	3	4	5	3
VARIANT								
95	MYRI GALE				3	2	+	
COMPANIONS								
86	LARI LARI							3
141	SPIR LATI				1			

4 SPP

☐ RHEOTROPHIC : 57% TRANSITION = 14% ☐ OMBROTROPHIC : 29%

DREPANOCLADUS EXANNULATUS-DREPANOCLADUS FLUITANS NODUM (TABLE 30)

o M = 57.1%

C = 42.9%

7 REL;

38 SPP (63% OCCUR ONLY ONCE)

				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	0	9	2	
							o	•	o		o
MIRE CHARACTER	156	VACC	OXYC				1		1	1	
	47	ERCS	ROTU				+	+			
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	LIMO	1	1						
	255	SPHA	MAJU	1		1					
COMPANIONS	33	CARE	PAUP			1	2	1			
	15	CALL	PALU								5
	34	CARE	ROST							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	HYDR	AMER							1	
	279	HYPE	BORE							1	

38 SPP

☐ RHEOTROPHIC = 50% TRANSITION = 30% ☐ OMBROTROPHIC = 20%

SPHAGNUM IMBRICATUM NODUM (TABLE 31)

o M = 70%

C = 30%

10 REL,

67 SPP (39% OCCUR ONLY ONCE)

			0064	0190	0187	0189	0065	0124	0127	1228	1225	1223
			o	o	o	o	o	o	o			
MIRE CHARACTERS	156	VACC OXYC	+			+	+	+	+		1	1
	126	SARR PURP					+	+	+	+	1	
	39	CHAM CALY							+	2	2	4
	47	DROS ROTU					+	+	+			
	85	KALM POLI			1			1	+			
	248	SPHA RECU								1	+	2
	58	ERIC ANGU							−			+
	135	SMIL TRIF								1	−	
	254	SPHA MAGE								+	1	
	262	SPHA RUBE						+	+			
NODAL DOMINANT	253	SPHA IMBR	5	5	5	5	5	5	5	5	5	4
VARIANTS	86	LARI LARI							1	1	+	+
	29	CARE OLIG								+	+	2
	115	RHOD 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	DRYO THEL				1	1					
	76	IRIS VERS			−	+						
	25	CARE LASI		+	+							
	6	ARON PRUN		2	+	−		1	+			
	52	EMPE NIGR					1	2	1			
	241	POLY STRI					2	1	1			
	16	CALO PULC						−	+			
	69	GAYL DUMO						1	2			
	83	JUNI COMM						1	1			
	84	KALM ANGU						1	1			
	192	CLAD IMPE						1	1			
	199	CLAD RANG						1	+			
	230	MICR SETA						1	+			
	233	ODON SPHA						1	+			
	251	SPHA FUSC						+	1			
COMPANIONS	4	ANDR GLAU							1	3		
	53	EPIL PALU	+			+						
	89	LONI VILL	1				1					
	95	MYRI GALE			1					2		
	112	POTE PALU	2				2					
	160	VIOL CUCU	+			1						

41 SPP

ALSC : (26 SPP)

2	ACER RUBR	124	3	ALNU RUGO	1225	23	CARE FOLL	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 GROE	65	90	LYCO UNIF	189
91	LYSI TERR	187	101	OSMU REGA	190	118	ROSA NITI	190
120	RUBU CHAM	124	129	SCIR CESP	124	142	SPIR TOME	190
143	THAL POLY	190	153	VACC ANGU	124	162	AULA PALU	65
166	BRYH NOVA	65	170	CAMP STEL	65	186	CLAD FIMB	124
220	HELO BLAN	65	249	SPHA FIMB	64			

OMBROTROPHIC - 100%

JUNIPERUS COMMUNIS VARIANT (TABLE 33)

• M = 100%

8 REL;

51 SPP (27% OCCUR ONLY ONCE)

0	0	0	0	0	0	0	0		
0	1	1	0	2	1	1	1		
0	4	8	3	2	3	2	2		
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	1	+	+	+
	85	KALM	POLI		1		+	+	+	1	+
	126	SARR	PURP	+	+		+	+		+	+
	254	SPHA	MAGE		+		3	+	+		
	262	SPHA	RUBE		+			+		+	+
	83	JUNI	COMM	1	1	+	+	+	2	1	1
Dataset Limited ASSOCIATES	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	RUBU	CHAM	1	1	2	3	1	1	1	
	137	SCLI	ULIG	-	+	+	+	+	+	+	
	199	CLAD	RANG	1	1	+		2	1	1	+
SUB-VARIANTS	69	GAYL	DUMO	+	1					1	2
	253	SPHA	IMBR							5	5
	192	CLAD	IMPE						1	1	1
	230	MICR	SETA				1	1	+	1	+
	233	ODON	SPHA			+	2	2	+	1	+
	87	LEDU	GROE	1	+	1	2	1	1		
	115	RHOD	CANA			+	+	+			
COMPANIONS	60	ERIO	SPIS		1	1	-		-		+
	153	VACC	ANGU	1	+		+	1		+	
	95	MYRI	GALE	+		1	+				
	129	SCIR	CESP		-			-		1	
	145	TRIE	BORE			+		+	+		
	239	POHL	SPHA			+		1	1		
	43	COPT	TRIF		+			+			
	44	CORN	CANA			+	+				
	68	GAUL	PROC	+							+
	86	LARI	LARI		1						1
	178	CLAD	ARBU			1			1		
	191	CLAD	GRAC			+			+		
	204	CLAD	TERR	1				1			

37 SPP

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	CHLO	1
185	CLAD	CRIT	1	186	CLAD	FIMB	124	216	DICR	UNDU	224
231	MYLI	ANCM	33	237	PLEU	SCHR	132				

OMBROTROPHIC = 67% TRANSITION = 33%

LARIX LARICINA VARIANT (TABLE 34)

• M = 55·6%

C = 44·4%

9 REL;

49 SPP (18% OCCUR ONLY ONCE)

			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
			•		•	•	•	•			
MIRE CHARACTERS	39	CHAM CALY	5	1	+	1		+	2	2	4
	156	VACC OXYC	1	+	1	1	1	+		1	1
	47	DROS ROTU	+	+	+	+	+	+			
	85	KALM FOLI	+	+	+	+	+	+			
	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						–			+
DIFFERENTIAL	86	LARI LARI	+	+	2	2	1	1	1	+	+
SUB-VARIANTS	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 OLIG						+	+	+	2
	115	RHOD 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 ARBU				2	3				
	120	RUBU CHAM			1	1	1				
	137	SOLI ULIG			+	+					
	145	TRIE BORE			1	+					
	153	VACC ANGU			1	1					
	87	LEDU GROE	1	1	1	1					
	239	PCHL SPHA	1	1	1	1					
	172	CEPH CONN	+	+	+						
COMPANION	68	GAUL PROC					+	+			
	69	GAYL DUMC		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

OMBROTROPHIC = 50% TRANSITION = 50%

RHODODENDRON CANADENSE VARIANT (TABLE 35)

C = 100%

		1	1	1	1	4 REL;
		1	1	2	2	
		0	9	2	2	22 SPP (36% OCCUR ONLY ONCE)
		3	9	5	8	
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 SUB-VARIANTS	115	RHOD CANA		1	1	4	+
	29	CARE OLIG				+	+
	86	LARI LARI				+	1
	253	SPHA IMBR				5	5
	84	KALM ANGU		+	2		
	241	POLY 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 = 100%

PICEA MARIANA VARIANT (TABLE 36)

```
   • M = 63·6%  0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 1 1 1 0 0 1 1 1  66 REL;
                5 3 6 6 7 0 8 0 1 2 0 0 0 3 0 1 0 1 5 5 5 8 3 5 3 5 2 6 4 4 4 3 3 1 4 5 5 0 1 2 5 5 6 6 8 1 2 6 8 8 1 4 6 6 8 8 9 9 0 0 2 1 7 0 1 1
    C = 36·4%   4 7 7 8 0 3 8 9 7 7 0 3 5 4 1 7 4 4 3 5 6 7 8 0 7 1 6 4 9 6 0 3 5 0 5 4 6 0 0 1 3 7 0 1 4 0 4 3 3 9 8 1 0 9 6 7 2 9 2 4 3 4 4 2 2 5  103 SPP (19% OCCUR ONLY ONCE)
                6 5 6 5 0 4 6 2 0 7 7 7 4 0 0 7 9 7 0 0 8 6 1 8 2 8 3 5 8 7 7 0 8 3 3 1 4 3 3 9 5 9 8 7 3 6 3 4 4 6 8 4 3 9 8 9 3 7 7 2 4 5 8 4 9 5
                o o o o o     o o o o o o o o       o o o   o o o o   o o o o o o   o o o o o o o o o o     o o       o o o               o        

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

DIFFERENTIALS
 102 PICE MARI  1 + 1 + 1 + 1|5 5 5 4 5 4 5 5 5 4 5 5 5 5 5 5 4 5 5|+ + + + 2 1 1 1 1 1 2 2 + 1 1 1 + 1 1 1 + 1 + 2 + + 1 1 3 2 1 + 1 1 + + 1 1 2 +   102 PICE MARI
  84 KALM ANGU  3 2 1 + 1   1 + + 2 1 1   1 1 1 1 1 1 + + 1 1 2 1 + 2 5 3 2 2 3 2 + 1 1 1 1 1 1 1 1 1 2 1 + 1   3 2 3 2 2 2 1 2 1   1 3 1   1 2 1 1    84 KALM ANGU
  87 LEDU GROE  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 - 2 1 + + 1 1 1 2 1 1 1 1 1   1 1   1 2     2 2   1 1   1 + 3 1    87 LEDU GROE

SUB-VARIANTS
 226 LEPI REPT        1 1 1 1|1 2 1 1 +   1 + 3 2 + + 4 2 + 1 +   1 + + + +    |                                                      +               226 LEPI REPT
 237 PLEU SCHR |5 2 5 5 5 1 3|+ + 2   +   +   + 4     +     1 1 1 1 3 1   + +  |        +                                                            237 PLEU SCHR
 216 DICR UNDU      1   + 3  |  1 3 1 1 + 1 + 1 1     1   1 2     + + 1     + 1|                                                                     216 DICR UNDU
 231 MYLI ANOM               |  +   + 1   +       + +   + + 1 + + + + + + +   1|    +           +             +         +                             231 MYLI ANOM
 172 CEPH CONN            +  |1 +   + + + +       + 3 +   +     1 + +     +    |    +                       +                                         172 CEPH CONN
 199 CLAD RANG              +|    1 +       1 2 1 3 1       1 3     +   + + 1 1|          1                                                         199 CLAD RANG
 181 CLAD CHLO        +      |        + + + + 1 + 1     +     +   + +     + +  |                                                                     181 CLAD CHLO
 241 POLY STRI    +                                   +       1       +   1 + 1 1|5 4 5 5|+ 1 + 1 + + 1 + 3 2 1 1 1 1                                 241 POLY STRI
 251 SPHA FUSC                  +                 1 3 + 2 1 + 1     1           1|3 + 2 4|5 5 5 5 5 5 5 5 5 5 5 5 4 5 5 5 5 5 5 5 5 5 4 5 4 5 5 5 5|  251 SPHA FUSC
  60 ERIO SPIS                                              - 1 + +                                           1 1 + 1 + + + - 1 + 2 - + +              60 ERIO SPIS
 192 CLAD IMPE                  1 1         +                               1 + +         +                                                         192 CLAD IMPE
 187 CLAD DEFO                                                              1 + +                                                                   187 CLAD DEFO
 190 CLAD GONE                                                              + + +                                                                   190 CLAD GONE
 185 CLAD CRIT                                                            + + + +                                 +                                 185 CLAD CRIT
 210 DICR FUSC            1 1 1 + + 1 + + +         +       +                                                                                       210 DICR FUSC
 163 BAZZ TRIL              1 1 1 1 1         1                         1                                                                           163 BAZZ TRIL
 158 VIBU CASS                    + + + +   +                       2                                     + -                                       158 VIBU CASS

COMPANIONS
 233 ODON SPHA            +   + +       + +       1 1   2 + + + + + + +   1 1 1 2   +     + 1 1 1 +   1     1 +   1     +           + 1   1     1 +   233 ODON SPHA
 239 POHL SPHA                + +     +   +         1     + + + 1 + + +   + + 1 + + 1 1 1     + + 1 +   + + +   1   + + 1                       +     239 POHL SPHA
 153 VACC ANGU  1 2 1 1     1   + 2   1 +   1   1   1   +     1     1 1 1 1 + 1 1               1   1 +     - +   1 1                       1         153 VACC ANGU
 120 RUBU CHAM  + 1           + + 1     + 2       +       1 1 1     1   1 1 1 1   +   1 2   1 1 3 2 2     1 2       2 1                             120 RUBU CHAM
  67 GAUL HISP  + 1     1 1 1     +             -                       1                                                 -     1       +     + 1      67 GAUL HISP
 115 RHOD CANA                1   1   +                             2             1         + +           1 1       1                   2             115 RHOD CANA
 230 MICR SETA                        +           +     + + + +   +           + 2             +                                           1         230 MICR SETA
  52 EMPE NIGR                    + 1       1                 1                           3 3 1   1                     1                 1          52 EMPE NIGR
  86 LARI LARI                                                      -               1         1           + 1 1 -   1             1                  86 LARI LARI
  97 NEMO MUCR      1         + +       +                           1                                     1 1     1                     +            97 NEMO MUCR
 261 SPHA RUSS    1             +   1 1 2 1         +           5       2                                                                           261 SPHA RUSS
   4 ANDR GLAU                                                                            1   1   +           1             2 2   +   +               4 ANDR GLAU
 256 SPHA NEMO              2 2   1   +                           +   1       2                                                             +       256 SPHA NEMO
   6 ARON PRUN                      + + 1                                                 1 +               +       +                                 6 ARON PRUN
  37 CARE TRIS    +       1                               2                           1                           1             1             1        37 CARE TRIS
  93 MELA LINE                            +     -               +         + +                               +     +                                  93 MELA LINE
 182 CLAD CONI        +   + +                     +               +   +                                                                             182 CLAD CONI
  44 CORN CANA                    1   +     +                                                               + 1                                      44 CORN CANA
 186 CLAD FIMB            + +   + +             +                                                                                                   186 CLAD FIMB
 191 CLAD GRAC                  + 1         + +             1                                                                                       191 CLAD GRAC
  69 GAYL DUMO                              2   1                                       1               1                                            69 GAYL DUMO
  70 GEOC LIVI                                              +           + +                     +                                                    70 GEOC LIVI
 129 SCIR CESP                                                                                    +   1     -                             +         129 SCIR CESP
 145 TRIE BORE                      +     +                       +                     +                                                           145 TRIE BORE
 173 CEPH MEDI                          2 +         +   +                                                                                           173 CEPH MEDI
 184 CLAD CRIS                                  +                     +     1 +                                                                     184 CLAD CRIS
  43 COPT TRIF                                                        +                                   - +                                        43 COPT TRIF
  95 MYRI GALE                                                    1                     1                   1                                        95 MYRI GALE
 162 AULA PALU                                                + 1                     +                                                             162 AULA PALU
 178 CLAD ARBU                  +           1                                                           +                                           178 CLAD ARBU
 189 CLAD GLAU            1                     +                                                             +                                     189 CLAD GLAU
 213 DICR MONT                    +     + +                                                                                                         213 DICR MONT
 228 LOPH ATTE                          1             2   1                                                                                         228 LOPH ATTE
   1 ABIE BALS    +               +                                                                                                                   1 ABIE BALS
  16 CALO PULC                                                                            + +                                                        16 CALO PULC
  29 CARE OLIG                                                                                                +                 +                    29 CARE OLIG
  42 CLIN BORE                1       2                                                                                                              42 CLIN BORE
  62 ERIO VIRG                                                                          1                                               +            62 ERIO VIRG
  92 MAIA CANA                              +                                             +                                                          92 MAIA CANA
 154 VACC BORE                +                                             +                                                                       154 VACC BORE
 157 VACC VITI    +                         1                                                                                                       157 VACC VITI
 174 CLAD BACI                              + +                                                                                                     174 CLAD BACI
 200 CLAD SQUA                    +                                                                               +                                 200 CLAD SQUA
 204 CLAD TERR                      +                                 1                                                                             204 CLAD TERR
 207 CLAD FLUI                                          +                                 +                                                         207 CLAD FLUI
 212 DICR MAJU    1                                                     1                                                                           212 DICR MAJU
 214 DICR POLY              +                 +                                                                                                     214 DICR POLY
 221 HYLO SPLE                    1                               2                                                                                 221 HYLO SPLE
 222 HYPN IMPO                  +   1                                                                                                               222 HYPN IMPO
 229 LOPH PORP                                    +           +                                                                                     229 LOPH PORP
 242 PTIL CRIS        1                                           +                                                                                 242 PTIL CRIS
 245 RICC LATI                                                +               +                                                                     245 RICC LATI
 257 SPHA PAPI                                                1                         1                                                           257 SPHA PAPI
    83 SPP

               ALSC :  (20 SPP)

  11 BETU GLAN   834             17 CARE AQUA   103             21 CARE EXIL   219
  32 CARE PAUC   997            137 SOLI ULIG     3            164 BLEP TRIC   568
 171 LOPH MARC  1129            175 CETR ERIC   530            177 CLAD ALPE   381
 183 CLAD CORN  1177            193 DICR DRUM   886            196 CLAD PITY     7
 205 CLAD UNCI     7            211 DICR LEIO   568            215 DICR SCOP    37
 218 DREP FLUI   876            232 OCHR FRIG   330            235 PELL EPIP   876
 258 SPHA PULC   414            268 TETR PELL   886
```

OMBROTROPHIC = 94%   ☐ RHEOTROPHIC = 2%   TRANSITION = 4%

VACCINIUM ANGUSTIFOLIUM VARIANT (TABLE 37)

```
• M= 87.6%  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 1 1 1 0 0|0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0[0][0 0]0 0     113 REL;
            6 6 8 3 5 6 6 6 8 6 8 2 0 1 0 0 0 4 6 3 3 3 3 3 4 4 4 3 3 3 4 4 4 7 5 5 7 2 0 0 0 1 1 2 1 3 5 2 2 2 2 2 2 0 1|1 1 1 2 2 2 2 2 6 8 5 5 5 5 6 6 6 9 1 6 6 6 6 6 6 3 4 5 5 6 7 2 6 6 5 5 4 6 3 3 4 6 7 7 7 7 1 1 2 5 6 6[1][0 3]3 3
  C= 12.4%  6 6 8 7 4 7 6 8 5 8 8 7 3 7 1 5 3 0 4 3 5 5 5 3 0 2 3 5 9 9 2 6 9 0 0 0 0 6 3 4 9 3 4 7 9 5 0 2 3 4 5 6 5 8 4|5 9 9 2 7 9 9 7 0 0 2 2 7 7 0 1 1 7 5 9 9 8 8 6 6 5 4 0 7 7 0 4 3 8 6 6 6 0 7 4 5 9 7 0 0 0 4 9 9 5 0 9 9[9][6 9]9 9     123 SPP (19% OCCUR ONLY ONCE)
            4 5 7 5 6 6 1 5 0 4 6 7 7 0 0 4 2 2 5 1 5 6 8 0 7 0 0 7 2 4 9 7 8 5 0 1 2 3 4 4 0 3 4 9 1 2 9 2 4 4 0 0 9 9 8|2 6 8 5 5 5 7 1 7 5 0 1 2 4 6 8 9 0 6 1 0 7 6 9 7 3 1 8 1 3 0 7 9 9 0 5 6 0 3 2 9 9 0 1 3 4 6 3 2 2 2 2 4[1][9 7]8 9
            o o   o o o o o   o   o o o o o o o o o o o o o o o o o o o o o o   o o o o o o   o o o o o o   o o o o o o o o o   o   o o o o o o o o o   o o o o o o o o o o o     o o o o o o o o o o o o   o   o o o o o o o o o

MIRE CHARACTERS
 39 CHAM CALY        2 2 1 1   +     1 +   1 2 4 2 1 1   2 2 1 2 1 2 2 3 1 1 2 1 2 3 1 1   2     1 1 1   1 1 1 2 1 + 2 1   1 1 1     2 1 1 1     1 1 1   1 + 1 1 1 1     2 1   1 + 1 1 2 1   1   1 2 2 2 1 2   3 1 1 1   1 1 1 2   1        3 3    39 CHAM CALY
 85 KALM POLI        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 1 1       +     1    85 KALM POLI
156 VACC OXYC        1 +       +     +       +   + 1       + + +   1   +   +         +     +   +   +   +     + 1   1   +         + + + +   +       +       1 1   + +   + +   +   1 + 1 1 + 1         1 1 1 +       +         156 VACC OXYC
262 SPHA RUBE        1           1         1   3     + 1   +   1   +           1     + 1       1     1   1       1           1                 1 +                    [4 4 5 5 5 5 5 4   5 5 4] 1         262 SPHA RUBE
 47 DROS ROTU                  1   +       +   +     + +   + + +   +   +       +       +       +     +   +       +           1       -               +   +   + + 1   +       + + +              47 DROS ROTU
135 SMIL TRIF        +                                                 1 1     2                                       1 +     +   2                 1             + 2 1 +         1 1 1 1     135 SMIL TRIF
126 SARR PURP                  +   +   + +     1         1           -   +           +     +                   +   1           1                   1 1   +                                 126 SARR PURP
254 SPHA MAGE        +       1       +   + 1                                                                 +     +                         +           1     + + 1           1 + 2 2             254 SPHA MAGE
 58 ERIO ANGU                                                                            1             +                     1 1                                         3 +                    58 ERIO ANGU
248 SPHA RECU                    1                                                                     +           1                   +                                   +                      248 SPHA RECU

DIFFERENTIAL ANGUSTIFOLIUMS
153 VACC ANGU    1 + 1 2 1 1 3 1 + 1 1 2 1 + 1 + 1 1 1 1 1 + 1 1 + 2 1 1 + 1 1 1 1 1 1 1 1 1 1 + + + + 1 + + 1 + + 1 1 1 1 + 1|+ + 1 1 1 + 1 2 1 3 1 1 + 1 2 1 1 1 1 4 2 1 4 1 2 4 1 1 1 1 2 1 1 4 2 1 1 1 1 1 1 1 2 1 + 1 1 + + 1 + + 1 3 1|1 2 2   153 VACC ANGU
 84 KALM ANGU      +   2 3 1 4 + 1 + 1 2 1 + 1   2 1 5 3 1 + 2 3 2 1 2 2 2 1 3 2 3 5 1 1 5 2 2 2 1 1 1 1 4 1 2 1 1 2 2 2 2 1 1|1 1 1 1 1 1 1 1 2 1 2 1 2 1 1 2 1 1 4 1   1 - 3 1 1 3 2 2 1 1 2 2   3 2 2 1 3 2 2 3 1 4 5 4 1 + 1 1 1 1 +    |- 1 1    84 KALM ANGU
 87 LEDU GROE          1 1 1 +   +   1 + 1 + 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 2 1 1 1 1 1 + 1 1 1 1 +   1 1 2 1 1 1 1 1 1 1|1 1 1 + 1 1 + 1 1 1 1 1 1 1 2 1 1 1 1 1 2 3 - 1 1 1 1 1 1 1   2 1 1   1 1 1 1 1 1 + 2 1 +   4 + 1 1 1 + 1   2| 1 3    87 LEDU GROE

SUB-VARIANTS
187 CLAD DEFO                                2 2 + + 1 + + + 1 + +                                                    +           +       +       + +   1 +                                          187 CLAD DEFO
190 CLAD GONE                              + + + + + + + + +                                                                                          1                                          190 CLAD GONE
226 LEPI REPT    + + 1         1 1 1 1 + 2 +     + +                 +   + +     +   +         +                 +           +         +           1 1                                          226 LEPI REPT
210 DICR FUSC      +             + + 1 + + +   +             +     +         +                                                                                                                   210 DICR FUSC
258 SPHA PULC                                                                                                                                                              [5 4 4] +                258 SPHA PULC
 36 CARE STRI                                                                                                                                                                 3 3                    36 CARE STRI
205 CLAD UNCI                                                                                                  1 +|+ + + 1 2 1 + 1 1 1                                                                                     205 CLAD UNCI
145 TRIE BORE                  +   +   +                 +                             + + 1 1 1 +           1 +|+ + + +   1 +                                                                     +                     145 TRIE BORE
178 CLAD ARBU                    + 1         1                     3 5 2 1 1 1 2 1 + 1 2 5 1 1   2|1 1 + 2 2 1 2 2                                                                                              178 CLAD ARBU
  6 ARCN PRUN                  +     1 +                         + +   + 1           + + + 1 1 + 1|+ +   + + 1 1 1   +                                                           1 + +       2 1             6 ARCN PRUN
 52 EMPE NIGR                  +   1                             3 2 2 1 + 1   1 1 1 2           2 |1 2 1 2 1 1 2         1 1 1 1 2 1 1 1                                           +                           52 EMPE NIGR
177 CLAD ALPE                                          +                 1 + +          [3 1 2 3 3 + + 5 5 3   |  1 3       1 1     2   1     1 1 5 3 2 2 1 1 + 2 1 + + 1 + 3 1 1 3         ]             177 CLAD ALPE
199 CLAD RANG              +     + + 1     1       +       1 1 1 + + 1 + + + + + 2 1 1 +[3 + 1 1 1 2 3 3 4 1 2 2 1 1 1 1|1 2 1 1 1 1 2 4 2 3 4 5 5 5 3   3 3 4 4 4 3 2 2 2 3 1 3 3 2 1 2 4 3 3 5 5] + +           199 CLAD RANG

COMPANIONS
120 RUBU CHAM        1 +         +   + 2     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1       1 +   2 1   +   +   1 1 2 1 - +     1|2 1 + +   + +   1   1 1 1 1 1 1 1 1         1     1 2 1 1 2       1 1 1 + 1 1 1   + 1 1     1          120 RUBU CHAM
233 ODON SPHA    1               +   +     1 + 1     2 1 1 1 3 1 1 1 1 1   1 1 1 + +   +   + +     +   + 1       +|      1   + 1 1   +     +   + 1   + 1         1 1 +     1         1     1     + 1       + + +          233 ODON SPHA
241 POLY STRI        +                 +   + 1 1 2 1 1 +   2 1 1 + 2 1   1 3 + 3     1       1     +     1         |  +           + +   +   +   + + +   + 1         1 + 1 1 + 1 1 1 1 1   + +                    241 POLY STRI
192 CLAD IMPE                  1   1 +         + +   + + 1 1 1   1 1     + 1   +     1   4 2 2   +     1         2|3 1 1   1 2 1   1 1 1         1   1 1     1 2 3 3 2 1 4 3       4     1 1                           192 CLAD IMPE
184 CLAD CRIS                                  + 2 1 + 1   + + + 1 + +   + 1 + + +         2 1   +       2 +       +|              + + +           + 1 + +   + 1 + 1 1         1       + +     +       +                         184 CLAD CRIS
216 DICR UNDU              1     + 1   3 1 1 + +     1 +       1 +     1 1                 +   + 2     +     +   1 1 |  +   + 1 +   1               1         2 1       + 1 +     1 + 1     2 +       1 +                 + 216 DICR UNDU
237 PLEU SCHR    - 1[2 5 5 5 5 5 4 3] 2 + +     1 +       +               +     +     + 3   1 1     +     +     +     1   |  +   +     + 1         +             1 +             + + 2 +       2                   1    237 PLEU SCHR
231 MYLI ANOM                    1 +     + + + +     1     + +   + + + + + 1 +   + +   + +         +                       + +   + +             + +     + +     +   + +   +                 + +                231 MYLI ANOM
181 CLAD CHLO              + + +     +   + +             +   +       +   +     + +   +     + +     + +                    +     +       + +     1 + + + + 1       +   1       1   1 1 +   1                      181 CLAD CHLO
102 PICE MARI    +   + 1 1   +     1[5 5 5 5 4]     +       1 1 2           + +     +             -   2     1                         + 1 1   3 -       +                                   2 2 1                      102 PICE MARI
230 MICR SETA                  +               +     2 +   +   +                 + + + +     +   +       +           +         +   +   + + 1 1                                     +           + + +                  230 MICR SETA
239 POHL SPHA              +     + +       + +     + 1 +     +     + + +     + +   +                   +                           +             +             + 1                 +   + 1     +   +   + +          239 POHL SPHA
251 SPHA FUSC    1                 +               1       1             1     +   +           1   1     +          1           1               + 1             1           1 1     + + + 1   1 + +          251 SPHA FUSC
172 CEPH CONN                  + +   +   +         + +   +   + +   + + + + + +           +                 +          +           +         +           +       +   +                   +                      172 CEPH CONN
 93 MELA LINE                                1 +     +   +   -   +                   + +         +                                                 +         + 1     +     + +   +   + +     +               93 MELA LINE
 97 NEMO MUCR    -       1         +   + -                         1     +               1 1 1                     1 1               1           1 +                     1       +           1               97 NEMO MUCR
 43 COPT TRIF    1                                           +         +         + 1 +                           + 1 +         +   + 2         1           -           1                 + +               43 COPT TRIF
115 RHOD CANA                  1 +       1                           2   + +       +           1 2                   2             1     1                                         1 1           2        115 RHOD CANA
185 CLAD CRIT                                2 1 + + +   + +     +   +     +         +       +                               +                 +   +   +                                                  185 CLAD CRIT
158 VIBU CASS                  + +   + + -                         2   + +                     1 -   |1                        +       -                                                       +                158 VIBU CASS
191 CLAD GRAC                  1   + +         +             + +   +     +           +       +     |+                 +                           +           +                                                  191 CLAD GRAC
 44 CORN CANA                  1 +   +   +                             1             + + 1               + 1 +               +                                                       1                   44 CORN CANA
256 SPHA NEMO                2 1 +       1   1       2           1     +       +                                                     1                   5                   5                            256 SPHA NEMO
 70 GEOC LIVI                                  + +         +                                             +           +             +     + 1           +                                   +             70 GEOC LIVI
129 SCIR CESP                                                            1                   1|+         +     1     + -                   1                           3                                  129 SCIR CESP
137 SCLI ULIG                        +                                   +     + + + 1       |    +         1                                                                      +                        137 SCLI ULIG
186 CLAD FIMB    +             + +   +                         +   +           +                   +  +        +                                                                                           186 CLAD FIMB
 95 MYRI GALE                          4                         1 1                                       1                                                         5                    3 2   3        95 MYRI GALE
183 CLAD CORN                                + 1       +       +                             +                 +                   +               +                                                  183 CLAD CORN
 37 CARE TRIS        +       1         1                                                           +   +                                   1                       2                   1              37 CARE TRIS
 67 GAUL HISP        1 +     1   1 +                           1                                       +                                                                                              67 GAUL HISP
 86 LARI LARI                                                            -               1                 +         -     1                           + +                                              86 LARI LARI
189 CLAD GLAU                                                    1     1     +         + +                           +                     1                                                          189 CLAD GLAU
204 CLAD TERR                          1                               2 3               1       3       3   +                           2                                                            204 CLAD TERR
 60 ERIO SPIS                                                              +   +             +           |+                   1                               +                                        60 ERIO SPIS
 68 GAUL PROC                                                            +                               |+ +       1 1 2                                                                               68 GAUL PROC
 69 GAYL DUMC                                                              1 1 2                       1   |      1 2                                                                               69 GAYL DUMC
182 CLAD CONI    1   +       +   +           +                                                             +                                                                                            182 CLAD CONI
232 OCHR FRIG                            1   1 1 +                                                                                      +   1                                                          232 OCHR FRIG
261 SPHA RUSS        1         1 +   2                   2                                                                                                                                    3        261 SPHA RUSS
163 BAZZ TRIL                1 1 1                       1                                                             1                                                                             163 BAZZ TRIL
213 DICR MONT                  +   +     +                                     +                                                       +                                                           213 DICR MONT
224 LECI GRAN                              1 1       +       +                                                                         +                                                           224 LECI GRAN
  4 ANDR GLAU                                                      + +                   +                                                             +                                             4 ANDR GLAU
 83 JUNI COMM                                                        +                   |+         1                                                                                   1           83 JUNI COMM
157 VACC VITI        +               1                                                   |  + + + 1                                                                                                  157 VACC VITI
179 CLAD BORY                                                                            |  1 + 3     1                                                                                              179 CLAD BORY
180 CLAD CENO                              +       +       1                                                                    +       1                                                          180 CLAD CENO
196 CLAD PITY                                                +                       +                                   +     2                                                                   196 CLAD PITY
214 DICR POLY              +   +   +                                                                                                                                                                    214 DICR POLY
268 TETR PELL    + +           +   +                                                                                                                                                                    268 TETR PELL
  1 ABIE BALS    1       +       +                                                                                                                                                                        1 ABIE BALS
194 CLAD MITI                                                      2                   |+               +                                                                                            194 CLAD MITI
200 CLAD SQUA                    +                                                                                      1         +                                                                200 CLAD SQUA
242 PTIL CRIS        +       1   1                                                                                                                                                                    242 PTIL CRIS
245 RICC LATI                                +                           +         +                                                                                                                245 RICC LATI
  3 ALNU RUGO                                                                                                                                                                       1   1              3 ALNU RUGO
 20 CARE CANE                                                                                                                                                                       + +               20 CARE CANE
 29 CARE OLIG                                                                                    1                                     1                                                            29 CARE OLIG
 92 MAIA CANA    -                   +                                                                                                                     1                                         92 MAIA CANA
103 PINU BANK                                +                                                                                                                                                   1  103 PINU BANK
154 VACC BORE                                  +                           +                                                                                                                       154 VACC BORE
162 AULA PALU                          1                                                   +                                                                                                       162 AULA PALU
175 CETR ERIC                                                                                                 +                             +                                                      175 CETR ERIC
176 CETR ISLA                                                                                                                       2 +                                                           176 CETR ISLA
193 DICR DRUM                    1                                                                                                     +                                                           193 DICR DRUM
211 DICR LEIO                                                                                                 1                                   +                                                211 DICR LEIO
212 DICR MAJU        1                                 1                                                                       1                                                                   212 DICR MAJU
215 DICR SCOP                      +                                                                                                                                                               215 DICR SCOP
222 HYPN IMPO                +     +                                                                                                                                                               222 HYPN IMPO
236 PLAG LAET        +       +                                                                                                                                                                     236 PLAG LAET
253 SPHA IMBR                                                            1                                                                                                          1             253 SPHA IMBR
263 HYPO PHYS        +                                             +                                                                                                                               263 HYPO PHYS
```

99 SPP

ALSC : (24 SPP)

8	ASTE NEMO	191	17	CARE AQUA	191	32	CARE PAUC	90
33	CARE PAUP	692	42	CLIN BORE	37	48	DRYO CRIS	69
62	ERIO VIRG	1239	96	MYRI PENS	297	119	ROSA VIRG	69
122	RUBU PUBE	191	141	SPIR LATI	69	160	VIOL CUCU	69
165	BAEO 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	POHL NUTA	850	240	POLY COMM	805	281	LYCO ANNO	1244

OMBROTROPHIC = 100%

RUBUS CHAMAEMORUS VARIANT (TABLE 38)

• M = 100%

87 Relj

98 SPP (17% occur only once)

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

MIRE CHARACTERS
  39 CHAM CALY  1 + 1 1 4 4 3 2 2 2 1 2 1 1 1   2 2 3 1 2 1 1 1 1 2 1 + 2 1 2 1 2 3 1 1   1 1 + 1 1   1 1 1   1 1       3 1 1 2 1   1 1 + 1   1   2 1 1 1   1 2 1   + + + + 1 + 1 1 1   3 2   1   39 CHAM CALY
  85 KALM POLI      + + 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   + + + + 1 + + 1 + 1 1   85 KALM POLI
 156 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  156 VACC OXYC
  47 DROS ROTU    +     + + +   + + 1 + +       1   +   +   + +                             +     + 1                 +             + + + +   +                   + + + 1 + + 1 + 1 1 + + +   +   47 DROS ROTU
 262 SPHA RUBE          1 1     1 + 1 1 3       +   +   +                                         1                 1 1           + + 1 + 1                         +           2 1 1 1 + + 1 1  262 SPHA RUBE
 126 SARR PURP      +           1   +   1       +                       1                           +                                   -   + -     +             +             1 1 1 + + + + + +       1 + 1  126 SARR PURP
 254 SPHA MAGE                                                                                                                    +             +                 2 1 1 1 1     1 +   2     +  254 SPHA MAGE
 135 SMIL TRIF  1           1                                               +                                                                                                                  135 SMIL TRIF

DIFFERENTIALS AND ASSOCIATES
 120 RUBU CHAM  1 + 1 1 + 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 + 2 1 2 1 1 1 1 1 + 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 + 1 + 1 1 2 + 1 2 + + + + 1 2 2 1 + + 1 + + 1 1 1 1 1 1 1 1 + + 1 + 1 1 2  120 RUBU CHAM
  84 KALM ANGU  1 1 1 2 1 1 1 5 2 2 2 3 3 3 1 + 1 2 1 2 1 3 2 2 5 1 3 2 2 1 3 1 1 1 2 2 1 2 1 1 2 1 2 2 1 2 1 2 1 2 1 1 1 2 2 2 1 + 1 1 2   2 1 3 1 1 1 1 1 1 1 1 1 2 2 1 + 2 2 1 1 2 1 1 1 1   84 KALM ANGU
  87 LEDU GROE  1 1 1   1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 +   1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 + 1 1 1 1 1 +   1   1 + 1 2 1 1 1 1 + 1 1 + + 1 1 1 1 1 1 1 1 1   - 1 1 1   87 LEDU GROE
 199 CLAD RANG    1 1 3     1   +   1 1 + 2     + 1 + 1 1 + + + 1 1 1 3 5 2 2 1 5 3 3 2 5 5 5 3 4 3 4 5 5 5 3   1 3 1 5 2 4 + 3 1 2 1 1 1   1 3   1 2 1 1 2 1 2 + 1 2 1 1 1 1 2 1 1 1          199 CLAD RANG

SUB-VARIANTS
 251 SPHA FUSC    3 + 1 +       1 1 1                                                 + 1 1 + + 1                             2 1 + 1                   3 1 1 3 1 3 3 3 2 2 3 + 4 +    251 SPHA FUSC
  52 EMPE NIGR        1                                                           1 1 1 1 1 1 1 1 1 1 2 1 2 3     1 1 2 3 1   1     3   1 4 1 2 1 2 2 1 2 1 4 2 2 2 1 2 1 2 + 2       1   52 EMPE NIGR
   6 ARON PRUN                                                                                                  + + +       + + + 1   + + + +   1 + +   + + 1 1     +   + 1 1 1 1 1 +     +      6 ARON PRUN
 178 CLAD ARBU                          1                                                                           1 1 1 3   2   +   5 2   2 3 1 1 + 2 1 1 2   1 2 1   2 1     1 3          178 CLAD ARBU
 137 SOLI ULIG                                                                                                                + + 1 + - 1 +     +         +     + 1 + + + + + + + +            137 SOLI ULIG
 145 TRIE BORE                                                                                                                    +     1 +     + + + + + + 1 + + + + + 1 + +                145 TRIE BORE
 185 CLAD CRIT                  + + + +     2 1 +     +     + + + +     +                                                             + + + + + +                                            185 CLAD CRIT
 187 CLAD DEFO                  + +   +   + 2 2   1 + 1 + + +     + + +   1                       +                                                                                            187 CLAD DEFO
 190 CLAD GONE                    +   + +   + + +     + +   +     1                                                                                                                          190 CLAD GONE
  95 MYRI GALE                                                                                                    1                         -                   1       1                   1 2   95 MYRI GALE
 261 SPHA RUSS  5 +                                                                                                                                                                         5 5  261 SPHA RUSS

COMPANIONS
 153 VACC ANGU    1   1   1 1 1 1 1   1 1   1 +   + 1 + 2 1 1 1 1 2 1 1 1 1 1       1 1   1 1 1   1 1 + 1   2 1 + 1     1 1 +   +   +   1     +   + + 1 1 + + 1 1   + + 1 1 + 2 1         +    153 VACC ANGU
 233 ODON SPHA  + 1 + + 1 1 1 + 1 2 1 1 1 +     2 1 1 1 1 1 3 1 +   +     1   +       1   + + + 1 1         +       +   +         1 + + 1   2   +                         + + 1 1 1 1 1 1 1 1 +        233 ODON SPHA
 192 CLAD IMPE                    +   + + 1 +   + 1 1 1 1   1   + 4 4 3     3 + -     1       1 1 1 1       1       2   2   1 3 4     4   3 3 + + 3 1 1   1 2 1 1 -   1 1 2 2   1 2            192 CLAD IMPE
 241 POLY STRI        1     + + 1 1 1 1 1 1 1 2   1 + +   2 2 1 3   1     +                 + +   +     +     +     +               +   1   1 1 1   +             2 1 1 + 1 1 1 1 +   1 4 5      241 POLY STRI
 230 MICR SETA      + + 1       + 2 + + + +     2       +             +   +   +       +   + + 1 + 1         + +     1   +       + 1 + + +       +                       + + + + 1 1 + + 1 1          230 MICR SETA
 177 CLAD ALPE      -       +                 +                 +   + 1 1 +   1 1 5   2 3 2       3 1 2 1   1   1 5 3               2         3   +   + 1     1 3   3 1 1     1                        177 CLAD ALPE
 184 CLAD CRIS              +   + +   1 + + 2 1 + 1 +   + + +   + 1 1 1 +   +         +       +   1                 1   1             1 +   2 +                                           +            184 CLAD CRIS
 231 MYLI ANOM  + + 1 + + + + + +     1 +           +     + + +     +                 +   +         +         +     +             + + +           +                   +     +   + + +       +      231 MYLI ANOM
 239 POHL SPHA  1 1 + +     + + + + + 1 +           + +   +   +             +             + +                                         +   +                       +   + 1 1 + + +     1 1   +  239 POHL SPHA
 216 DICR UNDU      2   1     1 1     1 + 1       1   +           +       1 +                 1                                 + +   +       +   1 - +       +   +   +                 1 1 +            216 DICR UNDU
 237 PLEU SCHR  1   1 1       1             + +           +       + +           +                                       +                   +   1               +       2   +   + +   +   1   1       + +       +      237 PLEU SCHR
 181 CLAD CHLO        +             +     +     +     +     + + +       1 1 1 1                     1         + +       +   +   +         + + 1 +                                     +         +            181 CLAD CHLO
 102 PICE MARI  5 5 5 4       +   1   1               2       +         2         +       1 2         3     + 1 1 1             2               1                                                     1 2      102 PICE MARI
 129 SCIR CESP                      1           1                         1                   +   -   +     1       1           1 1   -           +                   +   + 1   1 2 1     1      129 SCIR CESP
 172 CEPH CONN  1 3       + +       +     +       +     + + + + +                       +                                             +                                         +     +       +          172 CEPH CONN
  93 MELA LINE  +                         1 1 +     - +     + +     +   +         +   +       +                       +                   +               +                                        93 MELA LINE
  69 GAYL DUMO                                                                                                      1   2       1 1   1                     1 2 1 -       1 1   1 2 2     2     69 GAYL DUMO
 204 CLAD TERR                1                                         2                                     3 2 2       3     3 1                 3     +             3   1 + 2                          204 CLAD TERR
  68 GAUL PROC                                                                                                      +       + +       +           + +       1 1   + + +     +           +           68 GAUL PROC
  83 JUNI COMM                                                                                                          +         -               + +           1 4 - +   2   1   1   -           83 JUNI COMM
 226 LEPI REPT    + 1 +   + + +                     +         +                                       +               1 +                                     +                                  226 LEPI REPT
  60 ERIO SPIS  +   - 1             1                                                                   1                               + +         1     +                         +               +   60 ERIO SPIS
  44 CORN CANA                                                                                                                  1               1               + + +     +       1 1 + +               44 CORN CANA
  70 GEOC LIVI        +                                   + +     +   + 1       +                             +                                               +           +                          70 GEOC LIVI
 205 CLAD UNCI                                                                            1                         1                                   + + + 1   1 +     +             +            205 CLAD UNCI
   4 ANDR GLAU                                  +                       +                                         1           + +                                           +     1 1     1         4 ANDR GLAU
  43 COPT TRIF                                                        -                           +               +                   1               +   +             +   +         +            43 COPT TRIF
  86 LARI LARI                      2                               1                             -     +                                                                 2 2 -       1 1            86 LARI LARI
 191 CLAD GRAC      1                       +                     + +                                     +   +                           +       +                   1                          191 CLAD GRAC
 232 OCHR FRIG                  +     1   +     +       1   1       +     1                                                                                                                    232 OCHR FRIG
 256 SPHA NEMO                1       2                         +   1                                                     + 1         1                               1                          256 SPHA NEMO
 176 CETR ISLA                                                    +       2                                               2         1                           1   +     1                  176 CETR ISLA
 245 RICC LATI  +                 + +                                                                         +           +                                     +   +                        245 RICC LATI
 179 CLAD BORY                                                                                                                          +       1 + 3   1       +                            179 CLAD BORY
 210 DICR FUSC    + +       +           1         +   +                                                                                                                                        210 DICR FUSC
  16 CALO PULC                                                                                                                                                + + +   +         +              16 CALO PULC
 189 CLAD GLAU                                                  1                                                                   + +   +                         +                        189 CLAD GLAU
 211 DICR LEIO                      1                                   +                       1                   1                                                   1                        211 DICR LEIO
 158 VIBU CASS                                                                                                          +                       1             -             1                    158 VIBU CASS
 186 CLAD FIMB                                                                                              +     +           +               +                                                  186 CLAD FIMB
 194 CLAD MITI                                                                                                    2                               +           +                 2                    194 CLAD MITI
 224 LECI GRAN                              1 1             +     +                                                                                                                            224 LECI GRAN
 253 SPHA IMBR                                                                                                      +                 + 1                                         1              253 SPHA IMBR
  97 NEMO MUCR                                                                                                  1                                           1             1                       97 NEMO MUCR
 115 RHOD CANA                                                                                                          +               1                                           1            115 RHOD CANA
 157 VACC VITI                                                                                                                                  +   +           +                            157 VACC VITI
 175 CETR ERIC    +                                                                           + 1                                                                                              175 CETR ERIC
 180 CLAD CENO                                +             +           +                                                                                                                  180 CLAD CENO
 183 CLAD CORN                              + 1             +                                                                                                                              183 CLAD CORN
  96 MYRI PENS                                                                                                                              +                   1                             96 MYRI PENS
 162 AULA PALU  +             1                                                                                                                                                            162 AULA PALU
 182 CLAD CONI                +                                                                                                             -                                              182 CLAD CONI
 188 CLAD FURC                                +                                                                                         +                                                  188 CLAD FURC
 200 CLAD SQUA                                                          1                                                               +                                                  200 CLAD SQUA
 208 CORN ACUL                                                                                                        +                   1                                                208 CORN ACUL
 213 DICR MONT                                                +                                                       +                                                                    213 DICR MONT
 229 LOPH PORP  + +                                                                                                                                                                        229 LOPH PORP
 263 HYPO PHYS                                                                                                        +                   +                                                263 HYPO PHYS
```

81 SPP

ALSO : (17 SPP)

5	ARET BULB	14	58	ERIC ANGU	1205	62	ERIO VIRG	564
92	MAIA CANA	82	103	PINU BANK	402	154	VACC BORE	407
163	BAZZ TRIL	606	165	BAEO ROSE	1204	173	CEPH MEDI	530
196	CLAD PITY	573	202	CLAD SUBS	1204	207	CLAD FLUI	381
209	DICR FLAG	394	215	DICR SCOP	669	228	LOPH ATTE	381
257	SPHA PAPI	372	266	SPHA TENE	283			

OMBROTROPHIC = 97% TRANSITION = 2% RHEOTROPHIC = 1%

EMPETRUM NIGRUM VARIANT (TABLE 39)

*M = 100%

85 REL;

105 SPP (26% OCCUR ONLY ONCE)

MIRE CHARACTERS

DIFFERENTIAL AND PERSONNES

SUB-VARIANTS

COMPANIONS

ALSO : (27 SPP)

2	ACER RUBR	124	13	CALA CANA	65	17	CARE AQUA	103
20	CARE CANE	173	32	CARE PAUC	90	37	CARE TRIS	220
46	DRCS INTE	174	49	CRYO THEL	65	54	EQUI ARVE	65
89	LONI VILL	65	112	POTE PALU	65	113	PREN TRIF	173
141	SPIR LATI	65	154	VACC BORE	90	163	BAZZ TRIL	606
166	BRYH NOVA	65	168	CALL STRA	173	170	CAMP STEL	65
182	CLAD CONI	108	187	CLAD DEFO	970	202	CLAD SUBS	1294
208	CORN ACUL	279	213	DICR MONT	279	220	HELO BLAN	65
258	SPHA PULC	258	263	HYPO PHYS	279	266	SPHA TENE	283

OMBROTROPHIC = 100%

GAYLUSSACIA DUMOSA VARIANT (TABLE 40)

• M = 85.4%
C = 14.6%

41 RELS
82 SPP
(16% OCCUR ONLY ONCE)

				0014	0080	0120	0123	0133	0279	0148	0233	0295	0297	1123	1174	0052	0144	1294	0258	0119	0283	0285	0296	0082	0276	0051	0003	0169	0257	0143	0001	0009	0146	0081	0002	0175	0244	0249	1106	1173	1186	1097	0124	0127
				•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•	•
MIRE CHARACTERS	85	KALM	POLI	1	1		+	+		+	+	1		+	-	+	+	1		+	+	+	+	+	1	+	1	1		+		1	1	+	+	1	+	1		1	-	+	1	+
	156	VACC	OXYC	1	+		1			1	2			+			+	+	1	1	1	1	1	+	1	2	1	1	+	1	1	1	1	+	1	1	+	+		1	1	1	+	+
	262	SPHA	RUBE	+	1	+	1	+		1	2			+	+	+	1		1	1	1				1	1	1		1	1		1	+	+		+	1	1	1	+	+	1	+	+
	39	CHAM	CALY	1	1	+			1		1	2	1	1	2	+	1	1			1	1	+		1	+	2	1		1	1		1	1	1	1		1	3	2		2		+
	47	DROS	ROTU	+		+	+			+				+			+		1	+	1	+	1	+	1	+	1	1	+	+	1	1		+	1	+	+		+	+	+	+	+	+
	126	SARR	PURP	-				+														+	+		+	+		-	+		+	-	+			+			+			1	+	+
	254	SPHA	MAGE	+	+					+									1		+	1			1	+		1		1		+	+						1	+	+	1		
	58	ERIC	ANGU							+						1										1	-												+					-
	135	SMIL	TRIF		+																													1					1					
DIFFERENTIAL AND ASSOCIATES	69	GAYL	DUMO	1	1	1	1	1	2	1	1	1	2	2	2	1	1	1	+	2	2	1	1	1	1	2	1	+	+	1	+	+	1	2	1	+	2	2	1	2	+	1	1	2
	84	KALM	ANGU	+	+	1	1	1	1	1	+	1	1	1	1	1	1	+	1	2	1	+	2	1	1	1	1	1	2	1	1	1	2	1	1	1		1	+	1	4	1	1	1
SUB-VARIANTS	253	SPHA	IMBR			+	+													1																							5	5
	137	SOLI	ULIG	1		-		+													+	+	+	+	+	1	+	+	+	+	-	+	+	+	+	-	+						+	
	241	POLY	STRI				+								+					1		1	1	2	+		+	1	+		+	+	+		+	1	+	+	3	1	2		1	1
	251	SPHA	FUSC	2		+				+	1			1		+	+	+		3	2	3	3	3	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	+	1
	52	EMPE	NIGR		1			1	1			1	2			+	+	1	1	2	+	1	2	1	2	1	3	3	1	1	4	2	1	1	4	2	+	1					2	1
	199	CLAD	RANG	2		1	1	1	2	1	1	1	2	2	3	2	1	1	1	1	1	1	1	+	1	2	1	1	1	1	1	1	1										1	+
	192	CLAD	IMPE		5	4	2	4	2	2	3	2	1	1		4	2	2	1		2	2	2	1	1	2	+	+															1	1
	178	CLAD	ARBU					2	1	2	2	1	2	1	3		1	1	1	3	1	2	1						+															
COMPANIONS	6	ARON	PRUN	1	+	+	+	+		1	+	1	1				1	1	1	+	1	1	1		1	1	1	+	1	1	1	+	1		1	+	1	+			+		1	+
	233	ODON	SPHA	1		+	+		+	+	1			1	+	+	+	+	1	1	1	1	1		1	2	+	1	+	+		1			+	+				+	1	+	1	+
	87	LEDU	GROE				+	+	1			1	+		+	+		1			1	1	1	+	1	+	+	1	1	1	1	1	+	+	+	+			1	1	1	1		
	230	MICR	SETA	1		+	1	+	+	+	1			1		+	+	+		1	1	1	1		+	1		+	+	+		1		+		+							1	+
	129	SCIR	CESP	1	1	-	1	1		1	1							1	1	1	2	+	1		1	1		-	2	1		1	-	1				1		-			1	
	120	RUBU	CHAM	1		+	+	+	+			+	+							1	+	1	1	1	+		2	2			1	2	1		1	3							1	
	153	VACC	ANGU					+	1	1		+	1				+					1	+	1	1			+	1	+	1	+	+		1	+					1		+	
	4	ANDR	GLAU	+			1	+		+	1			+			+		+	1	1		+				1			1							+	1		-				1
	83	JUNI	COMM	-					+				1							-			1	4	1						1	-	1										1	1
	16	CALO	PULC															+			+	+					+	+			+	-			+	+							-	+
	204	CLAD	TERR	3			2												1					3		+			1	1	1	1		-	1									
	86	LARI	LARI																	1		2	-			1				1			1			1			+		+			1
	145	TRIE	BORE									1	+			+						+	+	+		+	+					+				+								
	60	ERIO	SPIS	+	1									1	1		+						+									-	1											+
	184	CLAD	CRIS			1	1		1	+				+	+		2		+		+																							
	216	DICR	UNDU		+				+			+		+	-				3		+				1				+															
	43	COPT	TRIF				+					+					+			+		+							+	+			+											
	68	GAUL	PROC			+	+					1	1							+			+								+													+
	181	CLAD	CHLO			+	+		+					+	+		+			+											-													
	239	POHL	SPHA																			1	+		+			1								+			+		+			
	176	CETR	ISLA	2														4	1		1		+						+															
	256	SPHA	NEMO	1				+			1												1														1	1						
	44	CORN	CANA									+										1	1		+							+												
	95	MYRI	GALE										1														1				+			2		1								
	177	CLAD	ALPE									1	1	4	1																	-												
	205	CLAD	UNCI							+	1	1	+								+																							
	21	CARE	EXIL																1											1							2	1						
	102	PICE	MARI											1													2												1			-		
	115	RHOD	CANA																										+					1					1		+			
	158	VIBU	CASS																						1							+	1						+					
	231	MYLI	ANOM	+				+			+												+																					
	92	MAIA	CANA																					+			+					+												
	97	NEMO	MUCR										1										1																1					
	185	CLAD	CRIT			+									+																-													
	189	CLAD	GLAU			+									+	1																												
	194	CLAD	MITI										+												2					2														
	226	LEPI	REPT						+			+		1																														
	237	PLEU	SCHR						+				+												+																			
	257	SPHA	PAPI																								1										1	+						
	14	CALA	PICK																												+						2							
	96	MYRI	PENS										1																			+												
	116	RHYN	ALBA								+																		+															
	172	CEPH	CONN																																	+					+			
	179	CLAD	BORY								1	1																																
	200	CLAD	SQUA			+					1																																	
	206	CLAD	VERT							1					+																													
	207	CLAD	FLUI								+																		+															
	211	DICR	LEIO																						1												+							
	245	RICC	LATI						+														+																					
	266	SPHA	TENE								1										+																							

69 SPP

ALSO : (13 SPP)

2	ACER RUBR	124
186	CLAD FIMB	124
196	CLAD PITY	148
213	DICR MONT	279
263	HYPO PHYS	279
5	ARET BULB	14
188	CLAD FURC	120
202	CLAD SUBS	1294
248	SPHA RECU	1106
8	ASTE NEMO	244
191	CLAD GRAC	279
208	CORN ACUL	279
258	SPHA PULC	258

OMBROTROPHIC = 91% ☐ RHEOTROPHIC - 9%

ARONIA PRUNIFOLIA VARIANT (TABLE 41)

• M = 82.8%
C = 17.2%

58 REL;
119 SPP (26% OCCUR ONLY ONCE)

MIRE CHARACTERS

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

DIFFERENTIAL AND ASSOCIATES

6	ARCN PRUN + + + + + + + + 1 + 1 1 + + 1 + + 1 + + + + + 1 1 + 1 1 1 + 1 1 + + 1 1 + + + + + + + + 1 1 1 1 1 + + 2 6 ARCN PRUN
84	KALM ANGU 2 2 1 2 2 2 1 1 1 1 1 + 2 3 1 1 + 1 1 1 1 1 1 1 1 + 2 2 + 1 1 1 1 1 1 1 2 1 2 1 1 1 2 1 1 1 4 4 3 1 1 1 1 + + 84 KALM ANGU
253	SPHA IMBR + 1 + 5 5 5 5 253 SPHA IMBR
137	SOLI ULIG + - + 1 1 + + + + 1 1 + + - + + + + + + - + + + + + + + + + + 137 SOLI ULIG
16	CALO PULC + + + + + - + + + + + + - + 16 CALO PULC
251	SPHA FUSC + 1 + + 1 + 1 2 5 5 5 5 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 + 1 251 SPHA FUSC
241	POLY STRI 1 1 + + + + 1 + 1 + 1 + + + 1 + 1 1 1 + + 1 + 1 1 2 1 2 2 1 1 241 POLY STRI
52	EMPE NIGR 3 2 3 + 1 3 4 1 2 1 2 1 2 2 1 1 2 1 3 3 4 4 2 5 1 1 2 2 3 + 1 3 1 2 2 1 52 EMPE NIGR
192	CLAD IMPE 1 3 4 3 2 2 1 2 5 3 + 4 1 2 3 1 1 2 2 1 2 1 3 2 + + 1 1 192 CLAD IMPE
178	CLAD ARBU 3 2 2 5 1 2 2 3 2 1 1 1 1 2 1 2 2 1 1 + + + + 178 CLAD ARBU
205	CLAD UNCI 1 1 + 1 + + 1 2 1 + 1 205 CLAD UNCI
8	ASTE NEMC + 1 1 8 ASTE NEMC
17	CARE AQUA 1 + 1 17 CARE AQUA
20	CARE CANE + + 20 CARE CANE
25	CARE LASI + + 25 CARE LASI
13	CALA CANA + + 1 1 13 CALA CANA
141	SPIR LATI 1 1 + + - 141 SPIR LATI
95	MYRI GALE 1 - 1 + + 1 1 4 3 3 1 95 MYRI GALE
143	THAL POLY 1 1 1 + 143 THAL POLY
36	CARE STRI 2 1 1 36 CARE STRI
64	GALI PALU + + - 64 GALI PALU
89	LONI VILL 1 1 - 89 LONI VILL
243	SPHA WARN 5 5 5 243 SPHA WARN
272	ASTE BORE + 2 1 272 ASTE BORE
181	CLAD CHLO + 1 + + + + + + + + - 181 CLAD CHLO
184	CLAD CRIS 1 2 2 + 1 2 + + + 184 CLAD CRIS
189	CLAD GLAU + + + + 189 CLAD GLAU

COMPANIONS

87	LEDU GROE 1 1 + 1 1 1 + 1 1 1 1 + 1 2 1 + + 1 1 + 1 + 2 1 1 1 2 1 1 1 1 87 LEDU GROE
199	CLAD RANG 3 + 1 1 2 1 1 1 3 4 1 3 1 2 1 1 1 2 1 1 1 2 1 1 1 2 2 1 1 1 1 1 1 + 199 CLAD RANG
153	VACC ANGU 1 + 1 1 + 3 2 1 + + + + + + 1 1 1 + + + + + + 1 1 + + 1 1 1 - + 153 VACC ANGU
120	RUBU CHAM 2 1 + + + - + + 2 2 + 1 1 2 1 + + + 1 2 2 1 1 2 3 1 3 2 1 1 1 1 120 RUBU CHAM
233	ODON SPHA + 2 + 1 + + 1 + + + + 1 1 2 + 1 + 1 + 1 2 + + + 2 + 1 1 + 1 2 1 1 + 233 ODON SPHA
69	GAYL DUMO 1 1 1 1 1 2 1 1 2 1 + + 1 + 1 + 2 + 2 1 + 1 2 + 69 GAYL DUMO
230	MICR SETA + 1 + + + + + + 1 1 + + 1 1 + + 1 + 230 MICR SETA
129	SCIR CESP - 1 1 + 1 1 - 1 - 2 1 1 1 129 SCIR CESP
145	TRIE BORE + 1 1 + + + + + + + 1 + 1 + + + + 145 TRIE BORE
115	RHOD CANA + 1 2 + + + + + + + + + + + + + + 115 RHOD CANA
43	COPT TRIF + 1 + + + + + + + - 43 COPT TRIF
204	CLAD TERR 2 3 2 3 3 3 + 1 1 1 1 1 1 + 204 CLAD TERR
216	DICR UNDU + - + 1 1 1 + + 1 + + + 216 DICR UNDU
4	ANDR GLAU 1 + + + 1 + 1 + 1 1 1 1 + 4 ANDR GLAU
60	ERIO SPIS 1 + 1 + + + 1 - - 1 1 + + 1 + 60 ERIO SPIS
83	JUNI COMM + + 1 - 1 - + 1 + + 1 1 83 JUNI COMM
177	CLAD ALPE + + + 3 3 1 1 1 5 5 - 1 + 177 CLAD ALPE
239	POHL SPHA + + 1 + + + + + 1 + + + 1 + 239 POHL SPHA
44	CORN CANA 1 1 + + + + 1 + + + 44 CORN CANA
68	GAUL PRCC + + + + 2 + + + + 1 1 + + 1 + 68 GAUL PRCC
86	LARI LARI 1 1 1 1 1 + 1 + 1 - 1 86 LARI LARI
237	PLEU SCHR 1 + 1 2 + + + 1 237 PLEU SCHR
158	VIBU CASS + 1 - 1 + 1 - + + 158 VIBU CASS
97	NEMO MUCR 1 1 1 1 1 1 1 1 97 NEMO MUCR
102	PICE MARI 1 2 + + + + - + 102 PICE MARI
231	MYLI ANOM + + + + + + + 231 MYLI ANOM
185	CLAD CRIT + + + + + + - 185 CLAD CRIT
256	SPHA NEMC 1 + 1 1 1 1 256 SPHA NEMC
172	CEPH CONN + + + + + + 172 CEPH CONN
179	CLAD BCRY + 1 3 1 1 179 CLAD BCRY
191	CLAD GRAC + + + + + + 191 CLAD GRAC
176	CETR ISLA 1 4 2 + + 176 CETR ISLA
186	CLAD FIMB + + + + + 186 CLAD FIMB
194	CLAD MITI 2 + + 2 194 CLAD MITI
21	CARE EXIL 1 2 1 21 CARE EXIL
96	MYRI PENS + 1 + 96 MYRI PENS
118	ROSA NITI 1 + + 118 ROSA NITI
157	VACC VITI + + + 157 VACC VITI
162	AULA PALU + + 1 162 AULA PALU
257	SPHA PAPI 1 1 + 257 SPHA PAPI
2	ACER RUBR + + 2 ACER RUBR
14	CALA PICK + 2 14 CALA PICK
37	CARE TRIS + 1 37 CARE TRIS
70	GECC LIVI + + 70 GECC LIVI
92	MAIA CANA + + 92 MAIA CANA
93	MELA LINE + + 93 MELA LINE
116	RHYN ALBA + + 116 RHYN ALBA
122	RUBU PUBE - 1 122 RUBU PUBE
165	BAEC RCSE 1 + 165 BAEC RCSE
200	CLAD SQUA + 1 200 CLAD SQUA
202	CLAD SUBS + 2 202 CLAD SUBS
207	CLAD FLUI + + 207 CLAD FLUI

88 SPP

ALSC : (31 SPP)

3	ALNU RUGO	961	
23	CARE FOLL	190	
76	IRIS VERS	187	
114	RHAM ALNI	961	
159	VIOL BLAN	966	
182	CLAD CONI	108	
188	CLAD FURC	120	
208	CORN ACUL	1204	
240	POLY COMM	805	
266	SPHA TENE	233	
285	RIBE HIRT	966	
5	ARET BULB	14	
29	CARE OLIG	805	
91	LYSI TERR	187	
142	SPIR TOME	190	
161	VIOL PALL	961	
183	CLAD CORN	805	
196	CLAD PITY	148	
211	DICR LEIO	244	
248	SPHA RECU	805	
281	LYCO ANNO	1244	
10	ASTE RADU	966	
67	GAUL HISP	1189	
101	OSMU REGA	190	
149	VIOL INCO	962	
170	CAMP STEL	961	
187	CLAD DEFO	805	
206	CLAD VERT	148	
226	LEPI REPT	295	
263	HYPO PHYS	1204	
282	MUHL GLOM	966	

OMBROTROPHIC = 95% TRANSITION = 5%

SCIRPUS CESPITOSUS VARIANT (TABLE 42)

•M = 77.3%
C = 22.7%

75 REL;
58 SPP (21% OCCUR ONLY ONCE)

HABIT CHARACTERS

DIFFERENTIAL

SUB-VARIANTS

COMPANIONS

156	VACC OXYC		156
39	CHAM CALY		39
262	SPHA RUBE		262
47	DRCS RCTU		47
85	KALM POLI		85
126	SARR PURP		126
254	SPHA MAGE		254
135	SMIL TRIF		135
58	ERIC ANGU		58
248	SPHA RECU		248
129	SCIR CESP		129
60	ERIC SPIS		60
231	MYLI ANCM		231
207	CLAD FLUI		207
116	RHYN ALBA		116
258	SPHA PULC		258
155	VACC MACR		155
199	CLAD RANG		199
192	CLAD IMPE		192
178	CLAD ARBU		178
153	VACC ANGU		153
21	CARE EXIL		21
257	SPHA PAPI		257
95	MYRI GALE		95
87	LEDU GRCE		87
52	EMPE NIGR		52
241	POLY STRI		241
137	SCLI ULIG		137
145	TRIE BORE		145
44	CORN CANA		44
233	CDCN SPHA		233
230	MICR SETA		230
251	SPHA FUSC		251
4	ANDR GLAU		4
84	KALM ANGU		84
120	RUBU CHAM		120
6	ARCN PRUN		6
69	GAYL DUMC		69
256	SPHA NEMC		256
16	CALC PULC		16
239	PCHL SPHA		239
62	ERIC VIRG		62
86	LARI LARI		86
204	CLAD TERR		204
176	CETR ISLA		176
211	DICR LEIO		211
266	SPHA TENE		266
43	CCPT TRIF		43
216	DICR UNDU		216
83	JUNI COMM		83
115	RHCD CANA		115
8	ASTE NEMO		8
68	GAUL PROC		68
96	MYRI PENS		96
102	PICE MARI		102
184	CLAD CRIS		184
10	ASTE RADU		10
32	CARE PAUC		32
33	CARE PALP		33
97	NEMO MUCR		97
125	SANG CANA		125
127	SCHE PALU		127
158	VIBU CASS		158
181	CLAD CHLC		181
189	CLAD GLAU		189
194	CLAD MITI		194
205	CLAD UNCI		205
237	PLEU SCHR		237
246	SPHA ANGE		246

69 SPP

ALSC : (19 SPP)

2	ACER RUBR	1145
14	CALA PICK	6
37	CARE TRIS	220
89	LCNI VILL	635
177	CLAD ALPE	9
245	RICC LATI	296
255	SPHA MAJU	636
5	ARET BULB	126
26	CARE LINC	325
46	DRCS INTE	134
92	MAIA CANA	9
196	CLAD PITY	1249
247	SPHA CUSP	325
11	BETU GLAN	642
29	CARE GLIG	636
70	GEOC LIVI	579
147	UTRI CORN	134
200	CLAD SQUA	139
253	SPHA IMBR	119

OMBROTROPHIC = 95% TRANSITION=5%

ERIOPHORUM SPISSUM VARIANT (TABLE 43)

M = 59.1%
C = 40.9%

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

ALSC : (16 SPP)

6	ARCN PRUN	1269 1268
32	CARE PAUC	370 895
115	RHOD CANA	1269 1268
182	CLAD CONI	518
189	CLAD GLAU	1084
216	DICR UNDU	518
229	LOPH PORP	372
261	SPHA RUSS	372

16	CALO PULC	154 168
45	DROS ANGL	562 577
153	VACC ANGU	508 704
184	CLAD CRIS	1099
191	CLAD GRAC	1084
221	HYLO SPLE	518
242	PTIL CRIS	518
266	SPHA TENE	602

21	CARE EXIL	602
95	MYRI GALE	1268
162	AULA PALU	372
185	CLAD CRIT	1194 1084
192	CLAD IMPE	1178
226	LEPI REPT	508 518
245	RICC LATI	372
277	HABE BLEP	862

MIRE CHARACTERS

DIFFERENTIAL

SUB-VARIANTS

CONSTANTS

51 SPP

OMBROTROPHIC 75% TRANSITION = 25%

RHYNCHOSPORA ALBA VARIANT (TABLE 44)

M= 61.2%
C= 38.8%

134 REL;
98SPP (25% OCCUR ONLY ONCE)

MORE CHARACTERISTICS

DIFFERENTIAL AND ACCIDENTAL SPECIES

SUB-VARIANTS

COMPANIONS

63 SPP

ALSC : (25 SPP)

3	ALNU RUGO	156
15	CALL PALU	1273
30	CARE PALE	104
50	DULI ARUN	1273
76	IRIS VERS	156
100	OSMU CINN	50
168	CALL STRA	156
239	POHL SPHA	215
283	MUHL UNIF	1300

5	ARET BULE	126
17	CARE AQUA	177
32	CARE PAUC	1059
55	EQUI FLUV	264
79	JUNC BUFO	549
146	TYPH LATI	264
176	CETR ISLA	298
240	POLY COMM	185

13	CALA CANA	156
19	CARE BULL	47
34	CARE ROST	76
73	HYPE VIRG	156
87	LEDU GROE	215
150	UTRI INTE	270
199	CLAD RANG	126
251	SPHA FUSC	1046

OMBROTROPHIC = 81%   TRANSITION = 19%

DROSERA INTERMEDIA VARIANT (TABLE 45)

• M = 57·1%

C = 42 9%

42 REL

59 SPP (41% OCCUR ONLY ONCE)

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

MIRE CHARACTERS

```
  39  CHAM CALY   + 1                         1 1 1 +   + 1 + + + + + + 1 1   + 1   +   1 1 -   5 5
 156  VACC OXYC   1 +     + + +       + + 1   1 - 1 +     1 1 1 1 1 1 + 1 + +   +       +
  47  DROS ROTU     1     -   + +         +   +   1 +       1 +   1   1 1   +       + +
 262  SPHA RUBE     1       1 1 +       +         + +       1 + + 1       + 1     +
 254  SPHA MAGE     1       +   +                   +   + 1 +   + +       +           1   1
 126  SARR PURP   +         + -       1               -         - 1
  85  KALM FOLI   +                   +     +                     - +   1
```

DIFFERENTIAL

```
  46  DROS INTE   1 + 1 + 1 2 1 + 1 2 1 2 1 2 + 3 + 2 1 1 2 + 1 1 + 1 + 1 1 1 2 1 + 1 1 + + + 1 1 + +
```

ASSOCIATES

```
 116  RHYN ALBA   1 1 1 1 1 1 1 2 1 1 1 1 2 2 2 1 1 4 1 2 1 2 2 2 1 2 1 2 2 2 2 + 3 1 2 + 2 3
 207  CLAD FLUI   5 5 5 4 5 5 5 3 5   4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 4 1 1 1 + 4 1 3   1 2
```

SUB-VARIANT

```
 148  UTRI GEMI                                                                                 + 1
   4  ANDR GLAU             + +           1 +   + 1 - +   + + 1 + 1 1 1 1 +                     + +
 247  SPHA CUSP       2 1 1     +         1 2 1 5   2   + 1 1 + 1 +   5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
 155  VACC MACR       2 1 1 2 2 + 2 1     2 1 1       1                     +               1 1 5 5
 147  UTRI CORN           2 1 1 1 4 1 1 2 1 3 1 2   1 4 1             1
 258  SPHA PULC       2 1 1 3 4 1         2           1             1                 +
  88  LITT AMER         + + 1 2
  62  ERIC VIRG           1 1             + 1 + +         +           + +       -       1     +
  45  DROS ANGL                             1 1 1 1                     1   1 1
```

COMPANIONS

```
  60  ERIO SPIS     1                           1 1               +                 1 1             1
 257  SPHA PAPI   4     + +         + 2           +                 +
  26  CARE LIMO         1                                     +       1     1 +                     1
 233  ODON SPHA     +           +         +       +               1
   8  ASTE NEMO   +                     - +           +
 129  SCIR CESP   1       +       -       +
 203  XYRI MONT                                     + 1       1   1
 217  DREP EXAN                             1                                         1 3         +
 218  DREP FLUI                               4         +                 2 3
 255  SPHA MAJU         +       +   - +
 266  SPHA TENE       2           1       +                             2
  78  JUNC BREV         +           1 1
  95  MYRI GALE         +             1                                                       1
 280  JUNC PELO                                   +               +                   1
  29  CARE OLIG                                                       1                     +
 259  SPHA PYLA                                     2                                 +
```

35 SPP

ALSC : (24 SPP)

```
    2  ACER RUBR  1286          16  CALO PULC   179          20  CARE CANE  1255
   21  CARE EXIL  1300          25  CARE LASI  1286          30  CARE PALE   104
   33  CARE PAUP   270          36  CARE STRI  1255          50  DULI ARUN  1286
   55  EQUI FLUV  1286          61  ERIO TENE  1116          73  HYPE VIRG  1286
   94  MENY TRIF  1286         127  SCHE PALU  1116         135  SMIL TRIF   179
  150  UTRI INTE   270         175  CETR ERIC  1096         176  CETR ISLA   298
  192  CLAD IMPE   110         200  CLAD SQUA  1096         246  SPHA ANGE   270
  256  SPHA NEMO   293         283  MUHL UNIF  1300         286  SAGI CUNE  1286
```

TRANSITION = 29 % ☐ OMBROTROPHIC = 71 %

VACCINIUM MACROCARPON VARIANT (TABLE 46)

• M = 100 %

0	0	0	0	0	0	0	0	0	1	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 DIFFERENTIAL CHARACTERS

47	DROS	ROTU			+		+			+		+	+		−		+	1
156	VACC	OXYC		+		1		1				1	+	+	+			
262	SPHA	RUBE			+					+			1	1			+	+
126	SARR	PURP									−		−	+				
39	CHAM	CALY		+				1										
254	SPHA	MAGE								+				+				

ASSOCIATES DIFFERENTIAL

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	+		+

SUB-VARIANTS

147	UTRI	CORN				3	1	1	4	1	4	1	1	1	2			
30	CARE	PALE													1	3	3
95	MYRI	GALE													+	1	+
16	CALO	PULC														+	+
52	EMPE	NIGR														2	1
249	SPHA	FIMB														5	4
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	CESP							−			+			+		−	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

ALSO : (19 SPP)

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

☐ OMBROTROPHIC = 86%   TRANSITION = 14%

ERIOPHORUM VIRGINICUM VARIANT (TABLE 47)

• M = 40%

C = 60%

35 REL

57 SPP (45% OCCUR ONLY ONCE)

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
			1094	1112	0556	1017	1167	1172	0424	1209	1268	1080	0160	1241	1075	0422	0327	0538	0539	0870	0877	0914	1018	1019	1048	1061	1101	0477	0533	0536	1026	0974	1037	1292	1082	1179	0471
					●				●	●			●			●	●	●	●									●	●	●		●		●			●
MIRE CHARACTERS	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			+						−	1	+	+	1		+			+	1			
	156	VACC OXYC		1	+	+	1	+	1			1	+							+		1	+	+	1	1	+	+	+		+	1	+				
	262	SPHA RUBE	2	2	1			2	1			2		+	+														+		+		+				
	47	DROS ROTU			+			+	+	+	+										−			1	1	1						1					
	126	SARR PURP	1			+		1					1	1	1										+	−					+						
	85	KALM POLI	1								1	1							+													1					+
	58	ERIO ANGU		1								1		+																							
	135	SMIL TRIF										1	1	2																							
	248	SPHA RECU		+		1								1																							
DIFFERENTIAL	62	ERIO VIRG	1	+	2	+	+	2	1	1	1	+	+	1	1	1	+	1	+	2	+	1	1	+	+	1	1	1	+	1	+	+	+	1	1	+	1
SUB-VARIANTS	247	SPHA CUSP								1	1					5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	4	5	5	5	5	5
	207	CLAD FLUI							1				+				1	2	1	1	4	2		5	5	5	1	3	4	1	3	4	1	1			
	116	RHYN ALBA																		+	1	1	+	2	2	1	1	1	3	1	1	2	2	2	1		−
	33	CARE PAUP											1	1																							
	87	LEDU GROE									−	1	1																								
	115	RHOD CANA									1	1	1																								
	84	KALM ANGU									1	1		1																							
	95	MYRI GALE									1	1			1																						
	60	ERIO SPIS				1	1	1	1	+	1																										
	45	DROS ANGL																										1	1	+	2	1					
	46	DROS INTE																														1	1	+	−	1	
	155	VACC MACR																																	5	5	2
COMPANIONS	4	ANDR GLAU		+	+		−	1	+	2		1					2		1			1	−		+			+			+	1	+			+	2
	26	CARE LIMO				−						1			+		1			2	3	1		1		2					1						
	257	SPHA PAPI			+																					+			1								+
	258	SPHA PULC								+		1	2													1											
	3	ALNU RUGO										−	−																								
	147	UTRI CORN																						+	4												
	217	DREP EXAN																												+				3			
	241	POLY STRI	+										1																								

31 SPP

ALSO : (26 SPP)

6	ARON PRUN	1268	8	ASTE NEMO	160	13	CALA CANA	160
29	CARE OLIG	974	37	CARE TRIS	160	76	IRIS VERS	160
86	LARI LARI	1268	90	LYCO UNIF	160	91	LYSI TERR	160
94	MENY TRIF	1061	100	OSMU 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	HYLO SPLE	160	222	HYPN IMPO	160
233	ODON SPHA	424	237	PLEU SCHR	160	251	SPHA FUSC	1075
266	SPHA TENE	974	280	JUNC PELO	1082			

OMBROTROPHIC = 65% RHEOTROPHIC = 13% . TRANSITION = 22%

NUPHAR VARIEGATUM VARIANT (TABLE 48)

8 S. CUS

AQUA 69

M = 73%
C = 27%

77 REL

34 SPP (47% OCCUR ONLY ONCE)

MIRE DIFFERENTIAL CHARACTERS

SUB-VARIANTS

COMPANIONS

34 SPP.

OMBROTROPHIC = 50% | RHEOTROPHIC = 1 % | TRANSITION = 49%

ANDROMEDA GLAUCOPHYLLA VARIANT (TABLE 49)

M = 47.1%
C = 52.9%

70 RELs

84 SPP (32% ONLY OCCUR ONCE)

39	CHAM CALY	MIRE CHARACTERS		39 CHAM CALY
156	VACC OXYC			156 VACC OXYC
47	DROS ROTU			47 DROS ROTU
85	KALM POLI			85 KALM POLI
254	SPHA MAGE			254 SPHA MAGE
126	SARR PURP			126 SARR PURP
262	SPHA RUBE			262 SPHA RUBE
135	SMIL TRIF			135 SMIL TRIF
248	SPHA RECU			248 SPHA RECU
58	ERIO ANGU			58 ERIO ANGU
4	ANDR GLAU	DIFFERENTIAL		4 ANDR GLAU
95	MYRI GALE	SUB-VARIANTS		95 MYRI GALE
257	SPHA PAPI			257 SPHA PAPI
29	CARE OLIG			29 CARE OLIG
258	SPHA PULC			258 SPHA PULC
16	CALO PULC			16 CALO PULC
52	EMPE NIGR			52 EMPE NIGR
30	CARE PALE			30 CARE PALE
249	SPHA FIMB			249 SPHA FIMB
8	ASTE NEMO			8 ASTE NEMO
10	ASTE RADU			10 ASTE RADU
125	SANG CANA			125 SANG CANA
145	TRIE BORE			145 TRIE BORE
231	MYLI ANOM			231 MYLI ANOM
129	SCIR CESP			129 SCIR CESP
21	CARE EXIL			21 CARE EXIL
246	SPHA ANGE			246 SPHA ANGE
98	NUPH VARI			98 NUPH VARI
247	SPHA CUSP			247 SPHA CUSP
207	CLAD FLUI			207 CLAD FLUI
86	LARI LARI			86 LARI LARI
253	SPHA IMBR			253 SPHA IMBR
26	CARE LIMO	COMPANIONS		26 CARE LIMO
116	RHYN ALBA			116 RHYN ALBA
127	SCHE PALU			127 SCHE PALU
62	ERIO VIRG			62 ERIO VIRG
155	VACC MACR			155 VACC MACR
33	CARE PAUP			33 CARE PAUP
46	DROS INTE			46 DROS INTE
94	MENY TRIF			94 MENY TRIF
218	DREP FLUI			218 DREP FLUI
255	SPHA MAJU			255 SPHA MAJU
45	DROS ANGL			45 DROS ANGL
217	DREP EXAN			217 DREP EXAN
15	CALL PALU			15 CALL PALU
32	CARE PAUC			32 CARE PAUC
233	ODON SPHA			233 ODON SPHA
6	ARON PRUN			6 ARON PRUN
11	BETU GLAN			11 BETU GLAN
34	CARE ROST			34 CARE ROST
60	ERIO SPIS			60 ERIO SPIS
84	KALM ANGU			84 KALM ANGU
147	UTRI CORN			147 UTRI CORN
148	UTRI GEMI			148 UTRI GEMI
168	CALL STRA			168 CALL STRA
230	MICR SETA			230 MICR SETA
241	POLY STRI			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 COMM	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	LONI 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 HUDS	733	

☐ RHEOTROPHIC = 28%   TRANSITION = 72%

MENYANTHES TRIFOLIATA VARIANT (TABLE 50)

o M = 78%

C = 22%

32 REL;

58 SPP (26% OCCUR ONLY ONCE)

			0157	0158	0162	0727	0724	0311	0774	0245	0246	0292	0250	0260	0289	0348	0750	0445	0443	0775	0734	0735	0629	0306	0161	0088	0062	0063	0061	0059	0060	0057	0058	0269
			o	o	o			o		o	o	o	o	o	o	o		o	o				o	o	o	o	o	o	o	o	o	o	o	o
DIFFERENTIAL MIRE CHARACTERS	58	ERIO ANGU																								-	1	1	+				+	-
	47	DROS ROTU		+	+	+																												
	156	VACC OXYC			+	-	-																											
	126	SARR PURP			+																					+								
	94	MENY TRIF	5	3	3	1	1	+	1	1	1	2	2	+	2	2	2	1	1	1	1	1	1	1	3	3	4	3	3	4	4	4	4	2
SUB-VARIANTS	131	SCIR SUBT								2	3	1	2													+								
	98	NUPH VARI								1	1	1																						
	148	UTRI GEMI								+	1														1									1
	90	LYCO UNIF																												1	+	+		
	170	CAMP STEL																											1	1	2	2		
	73	HYPE VIRG																										+	1	1	1	1		
	33	CARE PAUP		1	1																		1	2	1	+	3	3	4	4	4	4	4	
	257	SPHA PAPI		1	+																				1									
	116	RHYN ALBA		+	1	1																	1											
	255	SPHA MAJU	4	5	5	5	5	5												1					2	+								
	127	SCHE PALU				1	1	1	2											1														
	26	CARE LIMO				1	1	1									1	2	4	2	1	1												
	258	SPHA PULC				1	1														+	1	2											
	38	CARE VESI																			1	1	2											
	150	UTRI INTE																				2	3	2										
	112	POTE PALU																	1								+	2	1	1				
	134	SIUM SUAV																									1	-	1					
COMPANIONS	65	GALI TINC																1	1									1	2		+	1		
	46	DROS INTE												1							1		1	+		+								
	20	CARE CANE	+	+														1																
	25	CARE LASI				1																1												2
	155	VACC MACR																										+			1	+		
	167	BRYU PSEU																											+	1		-		
	9	ASTE NOVI																											+			1		
	13	CALA CANA																+													+			
	21	CARE EXIL												1												2								
	27	CARE MICH																					2											1
	28	CARE NIGR																								+						-		
	30	CARE PALE																2	1															
	40	CICU BULB																													+	-		
	53	EPIL PALU																										+	1					
	55	EQUI FLUV												1																				1
	78	JUNC BREV																						+	+									
	95	MYRI GALE																					1								1			
	123	RUME ORBI																1											1					
	207	CLAD FLUI			2																		2											
	217	DREP EXAN																1	1															
	247	SPHA CUSP										+								2														

43 SPP

ALSO: (15 SPP)

4	ANDR GLAU	306
35	CARE SALI	61
77	JUNC BALT	445
91	LYSI TERR	445
147	UTRI CORN	734
8	ASTE NEMO	306
39	CHAM CALY	88
81	JUNC MILI	260
109	POTA OAKE	306
152	UTRI VULG	260
31	CARE PANI	306
76	IRIS VERS	445
82	JUNC STYG	629
130	SCIR RUBR	445
253	SPHA IMBR	88

☐ RHEOTROPHIC = 27% TRANSITION = 73%

CAREX ROSTRATA VARIANT (TABLE 51)

- M = 63·6%
- C = 36·4%

11 REL.

52 SPP (50% OCCUR ONLY ONCE)

			0	0	0	0	0	0	0	0	1	1	1
			2	3	3	5	6	5	8	3	0	0	2
			1	0	8	9	1	9	9	8	7	7	8
			3	4	9	3	4	7	9	7	1	2	5
			o	o	o	o	o	o		o			
MIRE CHARACTERS	39	CHAM CALY			1	4	2	1		2		2	
	47	DRCS ROTU		+	+		+						+
	156	VACC OXYC		+	+	+							
	254	SPHA MAGE			1	1				+			
	262	SPHA RUBE	1		1	+							
	85	KALM POLI			+			+					
	126	SARR PURP			+							-	
	248	SPHA RECU				2				3			
DIFFERENTIAL	34	CARE ROST	2	1	2	1	2	3	1	2	1	1	+
	95	MYRI GALE			1	1	3	4	3	3	5	4	2
SUB-VARIANT	258	SPHA PULC	5	4	4								
	257	SPHA PAPI	1	1	+	2							
	4	ANDR GLAU	1	+	1	1	+	1				+	
	218	DREP FLUI				+	+		+				
	155	VACC MACR									1	4	1
	24	CARE INTE									1	+	
	141	SPIR LATI									1	1	
	217	DREP EXAN									+	+	
	267	SPHA PLAT									1	2	
COMPANIONS	25	CARE LASI	+	3				2					
	3	ALNU RUGC				1							1
	8	ASTE NEMO		1									+
	73	HYPE VIRG					+			+			
	76	IRIS VERS							+	+			
	118	ROSA NITI		1									1
	168	CALL STRA		+		1							

26 SPP

ALSO : (26 SPP)

10	ASTE RADU	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	ELEO CALV	304	55	EQUI FLUV	1071
58	ERIC ANGU	899	61	ERIC TENE	1071	66	GALI TRIF	1071
71	GLYC CANA	1072	90	LYCO UNIF	1071	91	LYSI TERR	1071
105	POLY 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			

OMBROTROPHIC = 25% | RHEOTROPHIC = 1% | TRANSITION = 74%

CAREX OLIGOSPERMA VARIANT (TABLE 53)

• M = 20.6%
○ = 79.4%

102 REL
80 SPP
(85% OCCUR ONLY ONCE)

Hinc Characters

Differential Species

Sub-dominants

Companions

40 SPP

156	VACC OXYC	156	VACC OXYC
39	CHAM CALY	39	CHAM CALY
254	SPHA MAGE	254	SPHA MAGE
248	SPHA RECU	248	SPHA RECU
85	KALM POLI	85	KALM POLI
262	SPHA RUBE	262	SPHA RUBE
58	ERIO ANGU	58	ERIO ANGU
126	SARR PURP	126	SARR PURP
135	SMIL TRIF	135	SMIL TRIF
47	DROS ROTU	47	DROS RCTU
29	CARE OLIG	29	CARE OLIG
87	LEDU GROE	87	LEDU GRCE
239	POHL SPHA	239	POHL SPHA
84	KALM ANGU	84	KALM ANGU
251	SPHA FUSC	251	SPHA FUSC
241	POLY STRI	241	POLY STRI
25	CARE LASI	25	CARE LASI
155	VACC MACR	155	VACC MACR
95	MYRI GALE	95	MYRI GALE
257	SPHA PAPI	257	SPHA PAPI
127	SCHE PALU	127	SCHE PALU
247	SPHA CUSP	247	SPHA CUSP
258	SPHA PULC	258	SPHA PULC
255	SPHA MAJU	255	SPHA MAJU
4	ANDR GLAU	4	ANDR GLAU
26	CARE LIMO	26	CARE LIMO
86	LARI LARI	86	LARI LARI
11	BETU GLAN	11	BETU GLAN
60	ERIO SPIS	60	ERIO SPIS
116	RHYN ALBA	116	RHYN ALBA
94	MENY TRIF	94	MENY TRIF
102	PICE MARI	102	PICE MARI
32	CARE PAUC	32	CARE PAUC
33	CARE PAUP	33	CARE PAUP
115	RHOD CANA	115	RHOD CANA
207	CLAD FLUI	207	CLAD FLUI
217	DREP EXAN	217	DREP EXAN
233	ODCN SPHA	233	ODCN SPHA
50	DULI ARUN	50	DULI ARUN
62	ERIC VIRG	62	ERIC VIRG

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	CONN	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	ANOM	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

156	VACC OXYC	1 + 1 1 2 1 1 1 1 + + + 1 1 1 1 1 1 + 1 1 + + 1 1 - - 1 + + 1 1 1 + + 1 + +		156
39	CHAM CALY	2 3 1 4 1 1 2 1 1 1 - 1 1 1 - 1 2 1 1 + 1 1 1 1 2 1 + - + 1		39
254	SPHA MAGE	4 5 4 5 4 5 5 5 4 5 4 2 1 + 1 1 1 1 2 1 + 1		254
47	DROS ROTU	1 + 1 1 + + - 1 1 1 - - + + + - +		47
126	SARR PURP	1 1 1 - - + - - + 1 1 + -		126
135	SMIL TRIF	1 - - 2 + 1 1 2 1 + +		135
85	KALM POLI	+ 1 + 1 1 +		85
248	SPHA RECU	2 1 2 1 1 2 +		248
262	SPHA RUBE	2 1 2 1 1 + +		262
58	ERIO ANGU	1 - 1		58
127	SCHE PALU	+ + 1 1 + 1 + 1 1 1 + 2 1 + 1 1 1 1 + + 1 1 + + 1 1 1 + 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 3 2 2 2 + 1 + 2 + + 2 2 1 1 1 2 1 1 1 1 1 2 1 + 1 1		127
247	SPHA CUSP	1 1 1 + + + 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		247
217	DREP EXAN	+ 1 + + 1 2 2 + + 1		217
207	CLAD FLUI	1 + + 2 4 3 + + 3 + 2 1 +		207
257	SPHA PAPI	+ 1 1 1 + 1 4 4 5 5 5 5 5 4 5 4 5 4 5 4 5 + 1 1		257
255	SPHA MAJU	+ 2 1 1 + 1 5 5 5 5 5 4 5 1 1		255
258	SPHA PULC	1 1 2 5 4 4 5 5 4 5 5 5 4 2 2 1 + 1 1 1 2 1 1 1) + 1		258
33	CARE PAUP	1 1 + 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		33
95	MYRI GALE	1 1 1 1 1 1 1		95
26	CARE LIMO	+ 1 1 2 1 1 1 1 + 1 1 2 1 1 2 1 2 1 1 1 1 + + 1		26
4	ANDR GLAU	+ - 1 + 1 + + - 1 + 2 1 1 + 1 1 1 1 + + 2 1 1 - + 1 1 + + 1		4
29	CARE OLIG	+ + 2 3 1 1 1 + 1 + + 1 - 2 + 1 1 2 1 2 2 - 1 1 2 2 -		29
116	RHYN ALBA	+ - 1 + 1 - 1 1 + - + - + 1 1 3 + 1+ 1 + 1 1		116
94	MENY TRIF	1 2 1 1 1 + + 1 1 + 1 + 1 - 1		94
218	DREP FLUI	1 + 1 1 + 1 2 1		218
155	VACC MACR	1 1 3 1 + +		155
25	CARE LASI	1 + 1 1		25
46	DROS INTE	1 - 1 - 1 +		46
61	ERIO TENE	+ 1 2 1		61

29 SPP

ALSO : (18 SPP)

11	BETU GLAN	743	935	
32	CARE PAUC	693		
50	DULI ARUN	1273	314	317
78	JUNC BREV	314	317	
87	LEDU GROE	928	693	
241	POLY STRI	1094	1131	
15	CALL PALU	596	611	1273
36	CARE STRI	693		
60	ERIO SPIS	928	1116	1130
84	KALM ANGU	928	1007	
102	PICE MARI	928		
246	SPHA ANGE	633	1273	
21	CARE EXIL	633		
45	DROS ANGL	447	456	
62	ERIO VIRG	1094	1054	
86	LARI LARI	1054		
239	POHL SPHA	743		
250	SPHA FLAV	1273		

☐ RHEOTROPHIC = 77%   TRANSITION = 23%

CAREX AQUATILIS VARIANT (TABLE 57)

• H = 51.6%
C = 43.4%

31 REL
77 SPP (32% [illegible] ONCE)

		0813	0102	0101	0385	0011	0140	0020	0100	0205	0202	0204	0808	0809	0810	0811	0814	0817	0816	0117	0116	0113	0114	0115	0112	0111	0019	0384	0191	0119	0187	0190
			○	○	○	○	○	○	○	○	○	○															○	●	○	○	○	○
MIRE CHARACTERS																																
39	CHAM CALY	1	2		2	1	2	1	1		+		1	1	+	+	1	1				+	+			1	2	2				
85	KALM POLI	1			+	1	1									+												1			1	
47	DROS ROTU	+	+		+	+	+		1																							
126	SARR PURP				1	1	+		+											+	1											
156	VACC OXYC	1	+			1			2																			+		+		
254	SPHA MAGE	4	4		+	−																										
135	SMIL TRIF		+	1					2																							
262	SPHA RUBE	1	1		1																											
DIFFERENTIAL AND ASSOCIATE																																
17	CARE AQUA	1	2	1	2	2	1	1	1	2	2	2	5	5	4	5	5	5	5	3	3	4	4	3	3	2	4	2	2	1	+	1
95	MYRI GALE	2	+		1		1	2	1	1	1	1	3	2	2	2			1	1			1	2		2	4	2	3		1	
SUB-VARIANTS																																
86	LARI LARI	1	1																													
118	ROSA NITI	1	1																1													+
257	SPHA PAPI	1				1	4	5	5	5	1																					
8	ASTE NEMO							1	1	+	1									+							+		+	1	1	1
6	ARON PRUN	1	1										+	+															2	−	+	2
25	CARE LASI																														+	+
20	CARE CANE																												+	+	+	+
253	SPHA IMBR																												1	5	5	5
76	IRIS VERS			+					+											+	1	+	+		+					+	−	
137	SCLI ULIG		1						1											1	+	+	+	1						+	+	+
21	CARE EXIL	+																		1	1	+	+	+	+	+						
160	VIOL CUCU																			1	2	1	+	+	+	+				1		
111	POTE FRUT																			2	1	4	3	3	4	2						
53	EPIL PALU		+							+	+											+	+	+	+	+				+		
22	CARE FLAV																					+		+	+	1						
124	SALI RIGI																				+			+	1	1						
63	EUPA MACU																				+		+	+	1							
170	CAMP STEL																			1	1		1	+	+							
65	GALI TINC																				+		+	+		+				+		
258	SPHA PULC		1	5	4	5	+																						+			
COMPANIONS																																
13	CALA CANA									+	+		1	1	1	+	1	1	1	+	1	+		1	1	+				1	1	1
141	SPIR LATI	+											+	+	+	+	1	1	1			1	2	+	+	1	1				+	−
3	ALNU RUGO	−					+		1		1	+	1	+			1	−	1										1			
4	ANDR GLAU	1					1								+	1					1	−	+			+						
90	LYCO UNIF																			+			+				−			+		
101	OSMU REGA																			2	2						−					1
143	THAL POLY																		2	1	1											+
49	DRYO THEL																								1	−				1		
73	HYPE VIRG							+												+							1					
114	RHAM ALNI																						−		+	1						
119	ROSA VIRG																							1	1	1						
142	SPIR TOME							−																			−					+
255	SPHA MAJU						1													+					+							
9	ASTE NOVI							+																			+					
71	GLYC CANA												−				+															
89	LONI VILL																						1	1								
91	LYSI TERR							+																							+	
153	VACC ANGU																		1										3			
155	VACC MACR							1		+																						
167	BRYU PSEU																				+				+							
249	SPHA FIMB													−	1																	
251	SPHA FUSC	1			1																											

52 SPP

ALSO : (25 SPP)

7	ASTE CREN	816		11	BETU GLAN	809		23	CARE FOLL	190	
29	CARE OLIG	813		48	DRYO CRIS	816		58	ERIO ANGU	813	
74	ILEX GLAB	114		84	KALM ANGU	384		87	LEDU GROE	384	
115	RHOD CANA	191		116	RHYN ALBA	100		121	RUBU HISP	102	
122	RUBU PUBE	191		132	SCIR VALI	117		207	CLAD FLUI	19	
216	DICR UNDU	384		231	MYLI ANOM	384		233	ODON SPHA	385	
235	PELL EPIP	19		237	PLEU SCHR	384		239	POHL SPHA	385	
248	SPHA RECU	100		261	SPHA RUSS	813		265	SPHA SUBS	19	
266	SPHA TENE	11									

RHEOTROPHIC = 44% TRANSITION = 56%

CAREX LASIOCARPA VARIANT (TABLE 56)

M = 45%
C = 52%

25 RELS
74 SPP (35% OCCUR ONLY ONCE)

		0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9	2	2	3	7	7	2	0	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	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
				o	o	o								o	o	o	o		•		o	•			o	o
MIRE CHARACTERS	39	CHAM	CALY					+	1	1	1	1	+	+							1	1	+	1			
	126	SARR	PURP						+	+	-				2	1	1										
	135	SMIL	TRIF			2				1							+										
	156	VACC	CXYC				+	+	1																		
	254	SPHA	MAGE					1	+	+																	
	47	DROS	ROTU				+		-																		
	85	KALM	POLI					+																	1		
DISTURBANCE	25	CARE	LASI	1	2	+	3	2	1	2	1	1	4	4	2	2	2	3	2	2	3	5	3	2	1	1	+	+
	155	VACC	MACR								1		2	1	1					+			1				
	247	SPHA	CUSP									5	5	5	5												
	95	MYRI	GALE	1					+	1	+	+	1	1						+			1	1	1	1	
	141	SPIR	LATI						+													1	1	1	1	+	-
	13	CALA	CANA																			1	1	1	1	1	1
	76	IRIS	VERS										1									-		+	+	-	
	36	CARE	STRI																			+	1	3	4		
	46	DROS	INTE												1	+	1	1									
	152	UTRI	VULG													1	2	+									
	140	SPAR	MULT														+	1									
	257	SPHA	PAPI		1	1	1	5	5	5	5																
	258	SPHA	PULC	5	5	5	4	+	1												1						
	4	ANDR	GLAU			1	+	1														1					
	288	SALI	PEDI					1													1	2	2				
	49	DRYC	THEL																			1	3				
	90	LYCO	UNIF																			+	+				
	112	POTE	PALU																			+	+				
	253	SPHA	IMBR																						5	5	
	20	CARE	CANE																		-				+	+	
	6	ARCN	PRUN																						+	2	
	17	CARE	AQUA																						+	1	
	137	SOLI	ULIG																						+	+	
COMPANIONS	8	ASTE	NEMO		2		1			1			+		1	-			+						1	1	
	55	EQUI	FLUV		1									1			1		1	-							
	73	HYPE	VIRG							1				+									-	+			
	94	MENY	TRIF					2						+			2		+								
	29	CARE	CLIG							+			+	+													
	34	CARE	ROST			2	1				1																
	91	LYSI	TERR																				+	+		+	
	143	THAL	POLY																					1	+		+
	14	CALA	PICK		+				+																		
	15	CALL	PALU								1										2						
	26	CARE	LIMO					1		1																	
	27	CARE	MICH														1		1								
	61	ERIO	TENE									1	+														
	101	OSMU	REGA																				-			1	
	118	ROSA	NITI				1																			+	
	265	SPHA	SUBS															+						+			

46 SPP

ALSC : (28 SPP)

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

OMBROTROPHIC = 21% RHEOTROPHIC = 15% TRANSITION = 64%

CAREX LIMOSA VARIANT (TABLE 55)

M = 29.8%
C = 70.2%

47 REL;
65 SPP
(32% OCCUR ONLY ONCE)

			Mire Characters / Differential
39	CHAM	CALY	
156	VACC	OXYC	
47	DROS	ROTU	
254	SPHA	MAGE	
126	SARR	PURP	
262	SPHA	RUBE	
85	KALM	POLI	
135	SMIL	TRIF	
248	SPHA	RECU	
26	CARE	LIMO	
62	ERIC	VIRG	
247	SPHA	CUSP	
116	RHYN	ALBA	
207	CLAD	FLUI	
4	ANDR	GLAU	
257	SPHA	PAPI	
258	SPHA	PULC	
94	MENY	TRIF	
255	SPHA	MAJU	
65	GALI	TINC	Sub-Variants
13	CALA	CANA	
217	DREP	EXAN	
30	CARE	PALE	
95	MYRI	GALE	
155	VACC	MACR	
34	CARE	ROST	
127	SCHE	PALU	Companions
29	CARE	OLIG	
25	CARE	LASI	
123	RUME	ORBI	
46	DROS	INTE	
76	IRIS	VERS	
78	JUNC	BREV	
112	POTE	PALU	
130	SCIR	RUBR	
161	VIOL	PALL	
38	CARE	VESI	
40	CICU	BULB	
53	EPIL	PALU	
61	ERIO	TENE	
77	JUNC	BALT	
86	LARI	LARI	
125	SANG	CANA	
147	UTRI	CORN	

44 SPP

ALSO: (21 SPP)

3	ALNU	RUGO	440	15	CALL	PALU	1076	20	CARE	CANE	445
27	CARE	MICH	733	32	CARE	PAUC	1059	41	CICU	MACU	442
45	DROS	ANGL	336	50	CULI	ARUN	317	60	ERIO	SPIS	943
64	GALI	PALU	439	66	GALI	TRIF	438	75	IMPA	CAPE	439
88	LITT	AMER	104	91	LYSI	TERR	445	148	UTRI	GEMI	318
150	UTRI	INTE	735	200	CLAD	SQUA	882	218	DREP	FLUI	1013
230	MICR	SETA	753	233	ODON	SPHA	336	291	SCIR	HUDS	733

OMBROTROPHIC = 10% TRANSITION = 51% MINEROTROPHIC = 39%

MYRICA GALE VARIANT (TABLE 58)

M: 65.1%
C: 34.9%

126 REL;
186 SPP (25% OCCUR ONLY ONCE)

MIRE CHARACTERS

DIFFERENTIAL SUB-VARIANTS

COMPANIONS

102 spp

ALSC : (84 SPP)

TABLE 58

2	ACER RUBR	1149	1286	985	
11	BETU GLAN	642	809		
22	CARE FLAV	111	115		
27	CARE MICH	267	629	21	
40	CICU BULB	60	438	441	
43	CCPT TRIF	634	635		
55	EQUI FLUV	1286	267	1071	
66	GALI TRIF	438	1071		
72	GLYC GRAN	252			
77	JUNC BALT	441	483		
82	JUNC STYG	629			
105	POLY AMPH	1071			
124	SALI RIGI	111	115		
132	SCIR VALI	117			
146	TYPH LATI	1217			
150	UTRI INTE	629			
172	CEPH CONN	175	303		
181	CLAD CHLO	1			
192	CLAD IMPE	3			
211	DICR LEIC	303			
222	HYPN IMPO	303			
227	LOPH HETE	1285			
237	PLEU SCHR	303	384		
259	SPHA PYLA	637			
267	SPHA PLAT	1073	1072	1071	
273	BETU PUMI	1217			
282	MUHL GLOM	966			
287	SALI DISC	906			

5	ARET BULB	95			
12	BETU PAPY	1149			
23	CARE FOLL	253	188	252	
32	CARE PAUC	253	636		
41	CICU MACU	442			
44	CORN CANA	33	180	634	
56	EQUI SYLV	252			
68	GAUL PROC	1			
74	ILEX GLAB	114	118		
80	JUNC FILI	487			
92	MAIA CANA	3			
113	PREN TRIF	173			
128	SCIR ACUT	988			
133	SENE AURE	253	252		
147	UTRI CORN	637			
158	VIBU CASS	965	961		
177	CLAD ALPE	33			
185	CLAD CRIT	1			
199	CLAD RANG	1	3	180	
216	DICR UNDU	384			
223	LEPT TRIC	1149			
234	PALL LYEL	253	303		
250	SPHA FLAV	1273			
260	SPHA RIPA	494	495		
269	THUI RECO	965			
276	EPIL LEPT	1073	907		
285	RIBE HIRT	965	966		
288	SALI PEDI	988			

7	ASTE CREN	816	444		
14	CALA PICK	1	1284	303	
24	CARE INTE	1073	1072	1071	
38	CARE VESI	631	629		
42	CLIN BORE	252			
54	EQUI ARVE	68			
63	EUPA MACU	114	115		
71	GLYC CANA	1073	808	1072	
75	IMPA CAPE	439	66		
81	JUNC MILI	267			
96	MYRI PENS	107			
121	RUBU HISP	102			
130	SCIR RUBR	438	439		
138	SPAR ANGU	28			
149	VIOL INCO	962			
169	CALL CORD	1149	1231		
178	CLAD ARBU	180	174		
191	CLAD GRAC	180			
204	CLAD TERR	1	81	107	
221	HYLO SPLE	252			
226	LEPI REPT	303	1280		
235	PELL EPIP	19	21		
252	SPHA GIRG	68			
264	SPHA SQUA	66			
271	ILEX VERT	1285			
280	JUNC PELO	1135			
286	SAGI CUNE	1286			
289	SALI PYRI	906			

RHEOTROPHIC = 63% TRANSITION. = 37%

CAREX STRICTA VARIANT (TABLE 59)

M = 43.7%

C = 56.3%

16 REL;

74 SPP (43% OCCUR ONLY ONCE)

			0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0
			2 6 6 6 2 2	9 9 9 9 9 9 9 9 9 9
			0 9 9 9 1 3	0 0 0 0 0 8 8 6 6 6
			6 3 2 4 8 1	8 7 2 1 6 8 7 6 2 1
			o o o • o	o o
MIRE CHARACTER	39	CHAM CALY	1 1 1 1	1 1 + 1 1 1
	135	SMIL TRIF	1 1 1 1 1	
	254	SPHA MAGE	2 2 2 + 2	
	156	VACC OXYC	+ + + + 1	
	248	SPHA RECU	4 5 5	
	47	DROS ROTU	+ +	
	126	SARR PURP	− +	
	262	SPHA RUBE	+ 1	
DIFFERENTIAL	36	CARE STRI	+ 2 3 3 2 1 2 1 4 3 4 1 + 1 2 1	
SUB-VARIANT	76	IRIS VERS	+ + −	
	25	CARE LASI	1 1 2 3	
	141	SPIR LATI	1 1 1 1 1 1 +	
	13	CALA CANA	1 1 2 1 1 1 1 + +	
	95	MYRI GALE	1 1 2 1 1 1 1 3 4 3	
	243	SPHA WARN	5 5 5	
	89	LONI VILL	1 1 1 −	
	64	GALI PALU	+ + −	
	87	LEDU GROE	1 + 1 + 1 1 1	
	258	SPHA PULC	4 4 4 4 5	
	84	KALM ANGU	1 + + 1	
	288	SALI PEDI	2 2	
	112	POTE PALU	+ +	
	90	LYCO UNIF	+ +	
	49	DRYO THEL	2 1	
COMPANIONS	143	THAL POLY	+ 1 1 1 + 1 1 1	
	6	ARON PRUN	+ 1 1 1 1 1	
	4	ANDR GLAU	+ + 1 1 1	
	272	ASTE BORE	+ + 2 + 1	
	118	ROSA NITI	1 2 1 +	
	122	RUBU PUBE	1 1 − 1	
	159	VIOL BLAN	2 2 1 1	
	257	SPHA PAPI	1 1 +	
	3	ALNU RUGO	2 1	
	33	CARE PAUP	+ 1	
	73	HYPE VIRG	+ −	
	86	LARI LARI	+ −	
	91	LYSI TERR	+ +	
	102	PICE MARI	+ −	
	137	SOLI ULIG	+ +	
	153	VACC ANGU	+ 1	
	161	VIOL PALL	1 1	
	162	AULA PALU	+ 1	

428 PP

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	DROS	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	GLOM	966	285	RIBE	HIRT	966
287	SALI	DISC	906	289	SALI	PYRI	906				

RHEOTROPHIC = 100%

SPIRAEA LATIFOLIA VARIANT (TABLE 60)

o M = 11.1%

C = 88.9%

18 REL;

69 SPP (43% OCCUR ONLY ONCE)

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

DIFFERENTIAL AND ASSOCIATES — MIRE CHARACTER

39	CHAM	CALY	1	2	1	1	+	+	1	1			1	1	+			1	1
141	SPIR	LATI	1	1	+	+	+	+	1	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	2	5	3	2	2	2			1	1	1		1			3	4	3
143	THAL	POLY									2	+	1					1	1	1
6	ARON	PRUN			+	+												1	1	1
87	LEDU	GROE	1															1	1	1
64	GALI	PALU																-	+	+
89	LONI	VILL																-	1	1
243	SPHA	WARN																5	5	5
272	ASTE	BORE																1	+	2
36	CARE	STRI		+							4	3	+	1				1	2	1
25	CARE	LASI									1	1	3	2						
76	IRIS	VERS		+							+	+	-							
90	LYCC	UNIF		1									+	+	+	1				
49	DRYO	THEL											1	3	1	1				
91	LYSI	TERR	+									+		+	+	+				
73	HYPE	VIRG										+		-	1	+				
17	CARE	AQUA			5	5	4	5	5	5	5									
288	SALI	PEDI											2	2						
112	POTE	PALU											+	+						
161	VIOL	PALL	+	+									1				1			
261	SPHA	RLSS	4	5																
34	CARE	ROST		+												3	4			
235	PELL	EPIP														1	+			
223	LEPT	TRIC														1	+			
136	CLIM	DENC														1	1			
66	GALI	TRIF														+	+			

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	RHAM	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	GLOM	966
285	RIBE	HIRT	966	287	SALI	DISC	906	289	SALI	PYRI	906

SUB-VARIANTS

3	ALNU	RUGC	1	1	1	+			1	-	1				-	1	1		
4	ACER	GLAU		1			+	1					1				1		
71	GLYC	CANA		+	-				+										
86	LARI	LARI													-	+	-		
118	ROSA	NITI									1						+	1	
162	AULA	PALU														1	1		+
48	DRYO	CRIS		1						-									
102	PICE	MARI																-	+
122	RUBU	PUBE															1	-	
159	VIOL	ELAN										1							1
249	SPHA	FIMB				-	1												

39 SPP

☐ RHEOTROPHIC - 100 %

CALAMAGROSTIS CANADENSIS VARIANT (TABLE 61)

			0815	1073	0439	0441	0442	0445	0488	0490	0811	0810	0809	0808	0814	0817	0816	0202	0116	0117	0060	1216	1153	1150	1048	0988	0987	0901	0906	0902	0962	0966	0487	0491	0190	0187	0189	0065
					•	•	•	•	•	•								•			•	•				•	•						•	•	•	•	•	•
MIRE CHARACTERS	39	CHAM CALY	1	2							+	+	1	1	1	1		+				+				+	1	1			1							
	126	SARR PURP																	1	+																		+
	156	VACC OXYC																													1				+	+
	85	KALM POLI									+																							1		
	248	SPHA RECU																			+	1														
DIFFERENTIAL	13	CALA CANA	1	1	1	1	+	+	2	1	+	1	1	1	1	1	1	+	1	+	+	5	1	+	1	1	1	1	1	2	+	+	+	1	1	1	1	1
SUB-VARIANTS	30	CARE PALE			3	2	3	2	2																								1					
	217	DREP EXAN			1	1	+	1		+																							+					
	26	CARE LIMO			1	4	3	2																														
	65	GALI TINC				2	1	1											+		+																+	
	123	RUME OREI			+		+	1																														
	161	VIOL PALL	+	+	1	1																					1											
	261	SPHA RUSS	4	5																																		
	3	ALNU RUGO	1	1									+	1	1	-	1	1					+	1	-													
	223	LEPT TRIC																					+	+	1													
	34	CARE ROST		+																			2	4	3													
	49	DRYO THEL																						1	1	3	1										1	1
	90	LYCO UNIF		1																+	+		1	1	+	+	+										+	
	91	LYSI TERR	+					+	2	+													1	+	+	+		+								+		
	73	HYPE VIRG							+											+	1	+	1	+	1	-		+					2	+				
	249	SPHA FIMB										1	-																				5	5				
	20	CARE CANE						1																									1	2	+	+	+	
	8	ASTE NEMO																1		+															1	1	1	
	253	SPHA IMBR																																	5	5	5	5
	137	SCLI ULIG																	+	1															+	+	+	+
	17	CARE AQUA									5	4	5	5	5	5	5	2	3	3															1	+	1	
	6	ARON PRUN											+	+																	1	1			2	+	-	
	87	LEDU GROE	1																												1	1						1
	89	LONI VILL																													1	1						1
	64	GALI PALU			+																										+	+						
	102	PICE MARI																													-	+						
	243	SPHA WARN																													5	5						
	272	ASTE BORE																													+	2						
	143	THAL POLY															2		1	1								1	+	1	1	1			+			
	36	CARE STRI		+																						1	+	3	4	4	2	1						
	25	CARE LASI																								2	3	1	1						+	+		
	288	SALI PEDI																								2	2											
	170	CAMP STEL																	1	1	2																	+
	160	VIOL CUCU																	2	1																	1	
	21	CARE EXIL																	1	1																		
	111	POTE FRUT																	1	2																		
	101	OSMU REGA																	2	2						-									1			
	66	GALI TRIF																						+	+													
	86	LARI LARI																						+	-													
	136	CLIM DEND																						1	1													
	235	PELL EPIP																						+	1													
COMPANIONS	95	MYRI GALE	2	5	2	1	3				2	2	2	3			1	1		1	1					1		1	1		4	3	4	+		1		
	141	SPIR LATI	1	1							+	+	+	+	1	1	1							+	+	1	1	1	1		1	1			-	+		+
	76	IRIS VERS		+	1	+		+	2	+									1	+							-	+	+				1	+		-	+	
	4	ANDR GLAU		1							1	+							1								1											
	53	EPIL PALU				1												+							1								1				+	
	112	POTE PALU			2																					+	+											2
	18	CARE BRUN																				1	+	2														
	33	CARE PAUP																			4												1					1
	48	DRYO CRIS		1													-						+															
	71	GLYC CANA		+										-	+																							
	118	ROSA NITI															1														1				+			
	162	AULA PALU																						1								+						1
	7	ASTE CREN															1													+								
	15	CALL PALU								4																								1				
	40	CICU BULB				+															+																	
	75	IMPA CAPE			+																		1															
	77	JUNC BALT				+		1																														
	94	MENY TRIF						1													4																	
	130	SCIR RUBR			1			+																														
	142	SPIR TOME		1																															+			
	155	VACC MACR																			1					1												
	159	VIOL BLAN																										1				1						
	169	CALL CORD																					1		+													
	255	SPHA MAJU																		+							-											
	257	SPHA PAPI	1															1																				

71 SPP

ALSO : (32 SPP)

10	ASTE RADU	966
24	CARE INTE	1073
52	EMPE NIGR	65
80	JUNC FILI	487
125	SANG CANA	441
149	VIOL INCO	962
167	BRYU PSEU	116
241	POLY STRI	65
262	SPHA RUBE	815
276	EPIL LEPT	1073
287	SALI DISC	906
11	BETU GLAN	809
41	CICU MACU	442
54	EQUI ARVE	65
122	RUBU PUBE	962
128	SCIR ACUT	988
153	VACC ANGU	816
197	PLAG DENT	1153
244	SPHA PALU	1153
265	SPHA SUBS	901
282	MUHL GLOM	966
289	SALI PYRI	906
23	CARE FOLL	190
47	DROS ROTU	65
63	EUPA MACU	116
124	SALI RIGI	116
132	SCIR VALI	117
166	BRYH NOVA	65
220	HELO BLAN	65
254	SPHA MAGE	815
267	SPHA PLAT	1073
285	RIBE HIRT	966

RHEOTROPHIC = 87% TRANSITION = 13%

ALNUS RUGOSA VARIANT (TABLE 62)

° M = 46·7%
C = 53·3%

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			
°	°	°									°	°	°	°			

15 REL;

70 SPP (48% OCCUR ONLY ONCE)

MIRE CHARACTERS

39	CHAM	CALY			1	3	1	2				1	1	1	+		
47	DROS	ROTU	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	+	+	+

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	SOLI	ULIG	1	+	1												
241	POLY	STRI	1	1													
34	CARE	ROST					+	[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	

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

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	PAUP	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	POLY	816	153	VACC	ANGU	816	162	AULA	PALU	1150
169	CALL	CORD	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								

RHEOTROPHIC = 89% TRANSITION = 11%

CAREX PALEACEA VARIANT (TABLE 64)

o M = 100%

18 REL;
47 SPP (27% OCCUR ONLY ONCE)

			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	1	1	4	
			3	3	4	4	4	4	4	8	8	8	8	8	8	9	7	7	8	
			8	9	0	1	2	3	5	6	8	1	0	7	2	3	5	3	4	5
			o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
MIRE CHARACTER	156	VACC OXYC										1	1	1	2	2	1			
	47	DROS 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
	73	HYPE VIRG								+	+	1	1	2	1	1	+			1
	33	CARE PAUP										2	1	1	1	1	1	-	+	
	249	SPHA FIMB												5	5	5	5	5	4	5
	95	MYRI GALE	1	2	1	1	3						-	4	2	2	1	1	+	
	217	DREP EXAN	1	1	1	1	+	1	1	1		5	4	+						
	26	CARE LIMO	3	1	3	4	3	4	2											
	65	GALI TINC				2	1	1	1											
	123	RUME ORBI	+	+			+		1											
SUB-VARIANTS	4	ANDR GLAU																+	+	
	8	ASTE NEMO																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	POTE 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						

☐ RHEOTROPHIC = 88% TRANSITION = 12%

CAREX CANESCENS VARIANT (TABLE 65)

° M = 87.5%
C = 12.5%

8 REL;
52 SPP (61% OCCUR ONLY ONCE)

			MIRE CHARACTER								
			1 0	0	0 0	0	0	0	0		
			0 4	1	4 4	1	1	1			
			6 8	7	8 9	8	9	8			
			9 0	3	7 1	7	0	9			
			°	°	° °	°	°	•			
156	VACC	OXYC		1		1			+		
20	CARE	CANE	1	+	+	1	2	+	+	+	
253	SPHA	IMBR						5	5	5	
137	SCLI	ULIG						+	+	+	
17	CARE	AQUA						+	1	1	
6	ARON	PRUN						+	2	-	
8	ASTE	NEMO			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	DREP	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	15	CALL	PALU	491	16	CALO	PULC	173
23	CARE	FOLL	190	34	CARE	ROST	1069	40	CICU	BULB	1069
47	DRCS	ROTU	173	49	DRYO	THEL	189	50	DULI	ARUN	1069
52	EMPE	NIGR	173	55	EQUI	FLUV	1069	65	GALI	TINC	189
66	GALI	TRIF	1069	79	JUNC	BUFO	1069	80	JUNC	FILI	487
85	KALM	POLI	187	101	OSMU	REGA	190	113	PREN	TRIF	173
116	RHYN	ALBA	173	118	ROSA	NITI	190	129	SCIR	CESP	173
134	SIUM	SUAV	1069	142	SPIR	TOME	190	143	THAL	POLY	190
155	VACC	MACR	173	160	VIOL	CUCU	189	162	AULA	PALU	173
168	CALL	STRA	173	262	SPHA	RUBE	173	267	SPHA	PLAT	1069
278	HYDR	AMER	1069	279	HYPE	BORE	1069				

RHEOTROPHIC = 100%

LONICERA VILLOSA VARIANT (TABLE 66)

oM = 50%

C = 50%

4 REL;

40 SPP (57% OCCUR ONLY ONCE)

				0	0	0	0
				5	5	0	0
				6	6	6	6
				2	6	5	4
						0	0
MIRE ASSOCIATES DIFFERENTIAL CHARACTERS	156	VACC	OXYC			+	+
	89	LONI	VILL	1	1	1	1
	13	CALA	CANA	+	+	1	
	87	LEDU	GROE	1	1	1	
	141	SPIR	LATI	1	1	+	
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	POLY	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	DRCS	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	PURP			+	
	149	VICL	INCC	1			
	159	VICL	BLAN		1		
	160	VICL	CUCU				+
	166	BRYH	NOVA			1	
	170	CAMP	STEL			+	
	220	HELO	BLAN			1	
	241	POLY	STRI			2	
	249	SPHA	FIMB				1
	282	MUHL	GLOM		1		
	285	RIBE	HIRT		1		

40 SPP

RHEOTROPHIC = 100%

POTENTILLA PALUSTRIS VARIANT (TABLE 67)

				0	0	0	0	0
				0	4	0	0	0
		o M = 100%		6	4	6	6	6
				7	4	6	5	4
				o	o	o	o	o
MIRE DIFFERENTIAL CHARACTERS	156	VACC	CXYC				+	+
	112	POTE	PALU	1	1	2	2	2
SUB-VARIANT	95	MYRI	GALE		3	5		
	13	CALA	CANA	+	1	+	1	
	65	GALI	TINC	+	1	1		
	20	CARE	CANE	+	1			
	170	CAMP	STEL			1	+	
	89	LCNI	VILL				1	1
	137	SOLI	ULIG				+	+
	253	SPHA	IMBR				5	5
COMPANIONS	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	DRYO	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	PURP				+	
	141	SPIR	LATI				+	
	162	AULA	PALU				1	
	166	BRYH	NOVA				1	
	167	BRYU	PSEU	1				
	172	CEPH	CONN	+				
	217	DREP	EXAN		1			
	220	HELO	BLAN				1	
	241	POLY	STRI				2	
	249	SPHA	FIMB					1
	264	SPHA	SQUA			+		

5 REL;

39 SPP (66% OCCUR ONLY ONCE)

39 SPP

SPECIES LIST

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	ARONIA	PRUNIFOLIA
007	ASTER	CRENIFOLIUS
008	ASTER	NEMORALIS
009	ASTER	NOVI-BELGII
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	OLIGOSPERMA
030	CAREX	PALEACEA

031	CAREX	PANICEA
032	CAREX	PAUCIFLORA
033	CAREX	PAUPERCULA
034	CAREX	ROSTRATA
035	CAREX	SALINA
036	CAREX	STRICTA
037	CAREX	TRISPERMA
038	CAREX	VESICARIA
039	CHAMAEDAPHNE	CALYCULATA
040	CICUTA	BULBIFERA
041	CICUTA	MACULATA
042	CLINTONIA	BOREALIS
043	COPTIS	TRIFOLIA
044	CORNUS	CANADENSIS
045	DROSERA	ANGLICA
046	DROSERA	INTERMEDIA
047	DROSERA	ROTUNDIFOLIA
048	DRYOPTERIS	CRISTATA
049	DRYOPTERIS	THELYPTERIS
050	DULICHIUM	ARUNDINACEUM
051	ELEOCHARIS	CALVA
052	EMPETRUM	NIGRUM
053	EPILOBIUM	PALUSTRE
054	EQUISETUM	ARVENSE
055	EQUISETUM	FLUVIATILE
056	EQUISETUM	SYLVATICUM
057	ERIOCAULON	SEPTANGULARE
058	ERIOPHORUM	ANGUSTIFOLIUM
059	ELEOCHARIS	SMALLII
060	ERIOPHORUM	SPISSUM
061	ERIOPHORUM	TENELLUM
062	ERIOPHORUM	VIRGINICUM
063	EUPATORIUM	MACULATUM
064	GALIUM	PALUSTRE
065	GALIUM	TINCTORIUM
066	GALIUM	TRIFIDUM
067	GAULTHERIA	HISPIDULA
068	GAULTHERIA	PROCUMBENS
069	GAYLUSSACIA	DUMOSA
070	GEOCAULON	LIVIDUM
071	GLYCERIA	CANADENSIS
072	GLYCERIA	GRANDIS
073	HYPERICUM	VIRGINICUM
074	ILEX	GLABRA
075	IMPATIENS	CAPENSIS
076	IRIS	VERSICOLOR
077	JUNCUS	BALTICUS
078	JUNCUS	BREVICAUDATUS
079	JUNCUS	BUFONIUS
080	JUNCUS	FILIFORMIS
081	JUNCUS	MILITARIS
082	JUNCUS	STYGIUS
083	JUNIPERUS	COMMUNIS
084	KALMIA	ANGUSTIFOLIA
085	KALMIA	POLIFOLIA
086	LARIX	LARICINA
087	LEDUM	GROENLANDICUM
088	LITTORELLA	AMERICANA
089	LONICERA	VILLOSA
090	LYCOPUS	UNIFLORUS

091	LYSIMACHIA	TERRESTRIS
092	MAIANTHEMUM	CANADENSE
093	MELAMPYRUM	LINEARE
094	MENYANTHES	TRIFOLIATA
095	MYRICA	GALE
096	MYRICA	PENSYLVANICA
097	NEMOPANTHUS	MUCRONATA
098	NUPHAR	VARIEGATUM
099	NYMPHAEA	ODORATA
100	OSMUNDA	CINNAMOMEA
101	OSMUNDA	REGALIS
102	PICEA	MARIANA
103	PINUS	BANKSIANA
104	PINUS	STROBUS
105	POLYGONUM	AMPHIBIUM
106	POTAMOGETON	CONFERVOIDES
107	POTAMOGETON	EPIHYDRUS
108	POTAMOGETON	FILIFORMIS
109	POTAMOGETON	OAKESIANUS
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	CHAMAEMORUS
121	RUBUS	HISPIDUS
122	RUBUS	PUBESCENS
123	RUMEX	ORBICULATUS
124	SALIX	RIGIDA
125	SANGUISORBA	CANADENSIS
126	SARRACENIA	PURPUREA
127	SCHEUCHZERIA	PALUSTRIS
128	SCIRPUS	ACUTUS
129	SCIRPUS	CESPITOSUS
130	SCIRPUS	RUBROTINCTUS
131	SCIRPUS	SUBTERMINALIS
132	SCIRPUS	VALIDUS
133	SENECIO	AUREUS
134	SIUM	SUAVE
135	SMILACINA	TRIFOLIA
136	OLIMACIUM	DENDROIDES
137	SOLIDAGO	ULIGINOSA
138	SPARGANIUM	ANGUSTIFOLIUM
139	SPARGANIUM	FLUCTUANS
140	SPARGANIUM	MULTIPEDUNCULATUM
141	SPIRAEA	LATIFOLIA
142	SPIRAEA	TOMENTOSA
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	MINOR
152	UTRICULARIA	VULGARIS
153	VACCINIUM	ANGUSTIFOLIUM
154	VACCINIUM	BOREALE
155	VACCINIUM	MACROCARPON
156	VACCINIUM	OXYCOCCOS
157	VACCINIUM	VITIS-IDAEA
158	VIBURNUM	CASSINOIDES
159	VIOLA	BLANDA
160	VIOLA	CUCULLATA
161	VIOLA	PALLENS
162	AULACOMNIUM	PALUSTRE
163	BAZZANIA	TRILOBATA
164	BLEPHAROSTOMA	TRICHOPHYLLUM
165	BAEOMYCES	ROSEUS
166	ERYTHRONIA	NOVAE-ANGLIAE
167	BRYUM	PSEUDOTRIQUETRUM
168	CALLIERGON	STRAMINEUM
169	CALLIERGON	CORDIFOLIUM
170	CAMPYLIUM	STELLATUM
171	LOPHOZIA	MARCHICA
172	CEPHALOZIA	CONNIVENS
173	CEPHALOZIA	MEDIA
174	CLADONIA	BACILLARIS
175	CETRARIA	ERICETORUM
176	CETRARIA	ISLANDICA
177	CLADONIA	ALPESTRIS
178	CLADONIA	ARBUSCULA
179	CLADONIA	BORYI
180	CLADONIA	CENOTEA
181	CLADONIA	CHLOROPHAEA
182	CLADONIA	CONIOCRAEA
183	CLADONIA	CORNUTA
184	CLADONIA	CRISPATA
185	CLADONIA	CRISTATELLA (=CLAD CRIT)
186	CLADONIA	FIMBRIATA
187	CLADONIA	DEFORMIS
188	CLADONIA	FURCATA
189	CLADONIA	GLAUCA
190	CLADONIA	GONECHA
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	LEICNEURON
212	DICRANUM	MAJUS
213	DICRANUM	MONTANUM
214	DICRANUM	POLYSETUM
215	DICRANUM	SCOPARIUM
216	DICRANUM	UNDULATUM
217	DREPANOCLADUS	EXANNULATUS
218	DREPANOCLADUS	FLUITANS
219	FONTINALIS	ANTIPYRETICA
220	HELODIUM	BLANDOWII
221	HYLOCOMIUM	SPLENDENS
222	HYPNUM	IMPONENS
223	LEPTODICTYUM	TRICHOPODIUM
224	LECIDEA	GRANULOSA
225	SPARGANIUM	ANDROCLADUM
226	LEPIDOZIA	REPTANS
227	LOPHOCOLEA	HETEROPHYLLA
228	LOPHOZIA	ATTENUATA
229	LOPHOZIA	PORPHYROLEUCA
230	MICROLEPIDOZIA	SETACEA
231	MYLIA	ANOMALA
232	OCHROLECHIA	FRIGIDA
233	ODONTOSCHISMA	SPHAGNI
234	PALLAVICINIA	LYELLII
235	PELLIA	EPIPHYLLA
236	PLAGIOTHECIUM	LAETUM
237	PLEUROZIUM	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	GIRGENSOHNII
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	SQUARROSUM
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	BRASENIA	SCHREBERI
275	CAREX	CHORDORRHIZA
276	EPILOBIUM	LEPTOPHYLLUM
277	HABENARIA	BLEPHARIGLOTTIS
278	HYDROCOTYLE	AMERICANA
279	HYPERICUM	BOREALE
280	JUNCUS	PELOCARPUS
281	LYCOPODIUM	ANNOTINUM
282	MUHLENBERGIA	GLOMERATA
283	MUHLENBERGIA	UNIFLORA
284	MYRIOPHYLLUM	EXALBESCENS
285	RIBES	HIRTELLUM
286	SAGITTARIA	CUNEATA
287	SALIX	DISCOLOR
288	SALIX	PEDICELLARIS
289	SALIX	PYRIFOLIA
290	SCIRPUS	CYPERINUS
291	SCIRPUS	HUDSONIANUS
292	CHARA	FOETIDA

OMBROTROPHIC = 27% TRANSITION=35% RHEOTROPHIC -38%

CAREX PAUPERCULA VARIANT (TABLE 63)

• M = 97.5%
C = 2.5%

40 RELS
92 SPP (25% OCCUR ONLY ONCE)

DIFFERENTIAL SPECIES

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

33	CARE	PAUP	1 2 + + 1 1 1 1 1 + + + 1 + + 1 1 1 + 4 4 4 4 4 3 3 1 2 1 1 1 1 2 1 1 1 1 + 1 1

SUB-VARIANTS

207	CLAD	FLUI	1 1 + 5 5 5 5 5 2 + 4 5
45	DRCS	ANGL	- 1 1 1 1 1 1
116	RHYN	ALBA	1 2 1 3 1 1 1 2 2
249	SPHA	FIMB	5 5 5 5 4 5 5
95	MYRI	GALE	1 1 - 4 2 2 1 + 1 1
217	DREP	EXAN	4 5 +
30	CARE	PALE	3 2 1 1 2 1 3
73	HYPE	VIRG	1 1 1 1 + 1 1 2 1 1 +
170	CAMP	STEL	2 2 1 1
94	MENY	TRIF	3 4 4 4 4 3 3 4 3 1 1
112	POTE	PALU	1 1 2 + +
134	SIUM	SUAV	1 - 1
52	EMPE	NIGR	+ 2 1 1
256	SPHA	NEMO	5 2 2 2 2
233	ODON	SPHA	2 1 2 1 1 2 + 1
231	MYLI	ANOM	+ + 1 + + +
60	ERIC	SPIS	1 + + + +
4	ANDR	GLAU	1 1 1 1 - - +
120	RUBU	CHAM	1 1 2
150	UTRI	INTE	2 3 2
46	DRCS	INTE	+ + 1 1 +
38	CARE	VESI	2 1
82	JUNC	STYG	+ 1
21	CARE	EXIL	1 3 2
253	SPHA	IMBR	1 1 1
28	CARE	NIGR	+ + -

COMPANIONS

257	SPHA	PAPI	+ + 1 + 1 1 1
129	SCIR	CESP	1 - 1 + 1
155	VACC	MACR	+ + 1 + 3
16	CALC	PULC	1 + + +
53	EPIL	PALU	+ 1 + 1
65	GALI	TINC	1 + 2 1
87	LEDU	GRCE	+ + 1 1
168	CALL	STRA	1 + + +
255	SPHA	MAJU	3 + 2 1
258	SPHA	PULC	1 + + 2
6	ARCN	PRUN	+ 2 1
13	CALA	CANA	1 + +
62	ERIC	VIRG	1 + +
78	JUNC	BREV	+ + +
84	KALM	ANGU	+ + +
90	LYCC	UNIF	+ + 1
127	SCHE	PALU	1 + +
167	BRYU	PSEU	- 1 +
230	MICR	SETA	+ 1 +
241	POLY	STRI	2 + 1
260	SPHA	RIPA	1 + 1
8	ASTE	NEMO	- 1
9	ASTE	NOVI	1 +
15	CALL	PALU	1 2
20	CARE	CANE	+ 1
40	CICU	BULB	- +
76	IRIS	VERS	+ 1
77	JUNC	EALT	+ +
91	LYSI	TERR	1 1
239	POHL	SPHA	+ +

66 SPP

ALSC : (26 SPP)

3	ALNU	RUGO	86
34	CARE	ROST	612
79	JUNC	BUFO	549
102	PICE	MARI	50
123	RUME	ORBI	61
147	UTRI	CORN	632
175	CETR	ERIC	549
216	DICR	UNDU	50
251	SPHA	FUSC	379
27	CARE	MICH	629
35	CARE	SALI	61
80	JUNC	FILI	487
109	POTA	OAKE	306
131	SCIR	SUBT	88
148	UTRI	GEMI	161
178	CLAD	ARBU	174
218	DREP	FLUI	524
259	SPHA	PYLA	632
31	CARE	PANI	306
69	GAYL	DUMO	50
100	OSMU	CINN	50
117	RHYN	FUSC	632
137	SOLI	ULIG	86
161	VIOL	PALL	494
211	DICR	LEIO	578
248	SPHA	RECU	1132