Report on the Identifications of the Corticolous Macrolichen Species Collected in the James River Face Wilderness Area and in the Mount Rogers National Recreation Area of Jefferson National Forest, Virginia

Jonathan P. Dey
Department of Biology
Illinois Wesleyan University
Bloomington, Illinois 61702-2900

Final report submitted to the Air Quality Specialist, Jefferson National Forest, USDA-Forest Service. January 22, 1995

TO: Cindy Huber,
Air Quality Specialist
USDA Forest Service
5162 Valleypointe Parkway
Roanoke, VA 24019-3050
Telephone (703) 265-6092

FROM: Jonathan Dey

**Biology Department** 

Illinois Wesleyan University Bloomington, Illinois 61702

Fax: 309 556 3411

Telephone: (309) 556-3057 Email: jdey@titan.iwu.edu

Date:

January 22, 1995

Subject:

Report on my identification work on the 1994 corticolous macrolichen

collections made in the James River Face Wilderness Area and in the Mount Rogers National Recreation Area of the Jefferson National Forest, Virginia.

The following is my final report on the identifications of the corticolous macrolichens collected in 1994 in the James River Face Wilderness Area and the Mount Rogers National Recreation Area of the Jefferson National Forest, Virginia. The purpose of the lichen collection study was to develop an understanding of the diversity of the corticolous fruticose and foliose lichen flora of the Jefferson National Forest and to train Forest Service personnel to discriminate between different lichen species. The information which follows will be used by the air resources management program to better document the impacts of air pollutants on forest ecosystems of the Jefferson National Forest.

### SUMMARY

One hundred-three fruticose and foliose lichen species were collected in the 20 plots sampled in this 1994 study of corticolous macrolichens in the Jefferson National Forest. Sixty-six species were identified from the 10 plots sampled in the James River Face Wilderness Area, and 76 species were collected from the 10 plots sampled in the Mount Rogers National Recreation Area. The presence of both pollution-sensitive and pollution-tolerant species in both study areas suggests that the lichens of these two study areas are not being adversely affected by atmospheric pollutants at the present time. This report includes comments about the methods of the study, the results, a discussion of the results and a listing of the literature cited. The Appendices A and B contain the data sheets for each plot including the specimen identifications, the abundance estimate with each collection, the over-all abundance code assigned to each species for each plot, the plot packing slips (copies) for each plot, and finally an example specimen label for each plot. Ninety-three voucher specimens will be sent separately.

#### **METHODS**

The methodology used in the current study follows that adopted for the study of lichen communities for the national Forest Health Monitoring (FHM) Program (McCune et. al., 1994):

Lichen communities are assessed in FHM by determining the presence and abundance of macrolichen species on trees in each plot (120-foot radius core of the plot). The field crew collects samples for mailing to the lichen expert. The field methods are described in detail in the 1993 Field Methods Guide (McCune and Dey, 1992). The procedures of the lichen expert are in McCune (1992a).

The method has two parts that are performed simultaneously. (1) Limited to a maximum of two hours in each plot, the field crew collects specimens for identification by a specialist, the collection representing the species diversity of macrolichens in the plot as fully as possible. The population being sampled consists of all macrolichens occurring on woody plants, excluding the 0.5 m basal portions of trees and shrubs. (2) The field crew estimates the abundance of each species using a four-step scale (McCune and Dey, 1992). Note that the field crew does not need not accurately assign species names to the lichens (that will be done later by the specialist), but must be able to distinguish among species.

In the current study, Jonathan P. Dey served as the lichen specialist who identified the macrolichens collected by the two fields crews. Kenneth Hickman and Thomas Blevins, the field crew members responsible for collecting the macrolichen specimens in the James River Face Wilderness Area and in Mount Rogers National Recreation Area respectively, attended a weeklong pre-field season FHM training session on lichens led by Dey in Asheville, NC. Both were tested and certified as qualified to collect specimens using the quality control standards of the FHM program (McCune, 1992b).

All field work was done in the summer of 1994 in the James River Face Wilderness Area and in the Mount Rogers National Recreation Area of Jefferson National Forest. A total of twenty plots were sampled—ten in each area. See Tables 1 and 2 for site information for each plot. Following the identification of the collections, a voucher specimen of each species was prepared, if suitable sized thallus piece or pieces of the species was/were available, and deposited in the herbarium of Jefferson National Forest, Roanoke, Virginia.

#### RESULTS

### Species Diversity and Abundance

Sixty-six corticolous macrolichen species were collected in James River Face Wilderness Area and 76 species were collected in the Mount Rogers National Recreation Area (species lists by plot are given in Tables 3 and 4). Fourteen species in each area respectively were found in 5 or more of the 10 plots sampled in the area (Table 5). Only five species are common to both lists. Of the 14 species occurring in five or more James River Face plots, only one species, *Myelochroa aurulenta*, was not also collected in the Mount Rogers plots. In contrast, of the 14 species occurring in five or more Mount Rogers plots, six species—*Hypogymnia physodes, Parmotrema crinitum, Cetrelia chicitae, Melanelia halei, Usnea subfloridana* and *Platismatia tuckermanii*—were not collected in the James River Face plots. In fact, of the 66 species collected in the James River Face plots, 27 species were not collected in the Mount Rogers plots. Of the 76 species collected in the Mount Rogers plots, 37 species were not collected in the James River Face plots. Thirty-nine species were collected both in James River Face and Mount Rogers plots. One hundred-three corticolous macrolichen species were collected from the combined plots of both areas. Vouchers of 93 species were deposited in the herbarium of Jefferson National Forest, Roanoke, Virginia.

The number of species collected per plot varied from plot to plot within each larger study area (Tables 3 & 4). Rain cut short the sampling time spent on plot #10 of the James River Face area and on plot #4 of the Mount Rogers area. Fog occurred during the latter part of the sampling period on plot #5 of the Mount Rogers area.

Lichens known to be especially sensitive or insensitive to pollution were found in both the James River Face and the Mount Rogers areas (Table 6).

The abundance of each species in each plot are given in Appendices A & B. (Abundance information combined with species diversity can be used to calculate synthetic lichen community scores on air quality and on climatic gradients, but this was not done in the current study.)

### DISCUSSION

The lichen communities of the James River Face Wilderness and the Mount Rogers National Recreation Areas of Virginia are very diverse. The total of 103 corticolous macrolichen species found in the 20 plots of the combined areas in this study exceeds the 94 species found in 19 plots scattered throughout the southern Appalachian Mountains (Virginiato-Georgia) during 1993 FHM summer sampling (McCune et. al., 1994). Dey (1984) reported 119 macrolichen species growing on trees in the high-mountain areas above 5,500 ft in the southern Appalachians. Mason Hale conducted a floristic survey of lichen communities of the Otter Creek and the Dolly Sods Wilderness Areas of West Virginia as part of a study using lichens as indicators of atmospheric quality (Lawery & Hale, 1988). Hale collected both microlichen (crustose forms) and macrolichen (fruticose and foliose forms) species from all available substrates--such as rocks, soil, wood and trees--from five areas (not FHM type plots) in each wilderness area. Of the 48 species reported from Otter Creek only 28 species were corticolous macrolichens, and of the 63 species reported from Dolly Sods only 33 species were corticolous macrolichens. Thus, the forest communities of the James River Face Wilderness and the Mount Rogers National Recreation Areas of Virginia appear to support a more diverse corticolous macrolichen flora than the forest communities sampled by Hale in West Virginia.

The variation in numbers of species collected from plot-to-plot in both areas are not unexpected due to differences in forest communities, including differences in woody species composition and forest structure, and microclimates at each site. The rains which caused termination of sampling after one hour on plot #10 of the James River Face area and after one hour-eight minutes on plot #4 of the Mount Rogers area probably affected the number of species detected in each plot respectively. The fog that occurred during the later stage of collecting on plot #5 in the Mount Rogers area may have affected the final species total for the plot because the fog would have hindered the ability of the collector to discriminate between species and to recognize species which had not yet been collected.

The occurrence of both pollution-tolerant and pollution-sensitive corticolous macrolichens throughout both the James River Face Wilderness Area and the Mount Rogers National Recreation Area suggests that the lichens of these two study areas are not adversely affected by atmospheric pollutants at the present time. The differences in total lichen species numbers (more at Mount Rogers) and in species compositions (27 species found only in James River Face plots and 37 species found only in Mount Rogers plots) between the study areas are probably related to direct and indirect effects of the topographical/elevational differences

between the two areas. Lichens distributions can be affected by both by differences in substrate trees availability for corticolous lichens in the differing forest community types and by differences in local microclimates. The James River Face Wilderness Area plots ranged in elevation from 1,020 ft. to 3,073 ft with all plots except one on Highcock Knob at elevations at or below 2,560 ft. The Mount Roger National Recreation Area plots ranged in elevation from 3,560 ft to 5,540 ft with seven of the ten plots above 4,150 ft. The Mount Rogers study area is higher in elevation, supports both a northern hardwoods forest and spruce-fir forest in addition to low-to-mid elevation hardwoods forests also found in the James River Face Wilderness Area, and is cooler in all seasons and moister with higher rainfall totals, more snow, and frequent fogs compared to the James River Face area. Many of the species unique to the Mount Rogers National Recreation Area plots in this study, such as Cetrelia chicitae, C. olivetorum, Everniastrum catawbiense, Hypogymnia krogiae, H. physodes, Hypotrachyna croceopustulata, H. revoluta, Melanelia halei, Menegazzia terebrata, Parmelia sulcata, Platismatia tuckermanii and Pseudevernia cladonia, are species with northern distributional ranges with extensions southward in the southern Appalachian Mountains only at mid-to-high elevations. On the other hand, some of the species, such as Cladonia macilenta, C. squamosa, Heterodermia casarettiana, H. leucomelos, Parmotrema crinitum, P. perlata and Physcia aipolia, reported only from plots in the Mount Rogers National Recreation Area in this study are known to occur also at low-tomid elevation sites elsewhere in the southern Appalachians so we would not have been surprised to see them in the James River Face Wilderness Area. Similarly but in a converse fashion, many of the species unique to the James River Face Wilderness Area plots in this study, such as Anzia colpodes, Candelaria concolor, Cladonia cristatella, Coccocarpia palmicola, Collema nigrescens, Leptogium corticola, Myelochroa aurulenta and Parmotrema stuppeum, are also known to occur in high-elevation forest communities at other sites in the southern Appalachians so we would not have been surprised to see them in the Mount Rogers National Recreation Area plots as well. Even without the latter observations, the fact that 39 corticolous macrolichen species (59% of the James River flora and 51% of the Mount Rogers flora) are found in both study areas indicates that the bulk of the lichen floras of the two areas is part of a larger homogenous flora characteristic low-to-mid elevation hardwood forests of the southern Appalachian Mountains. The only distinctive element in the lichen floras of either of the two study areas is the group of northern species present only in the Mount Rogers area flora which are characteristically found only in higher elevation hardwood and spruce-fir forests in the southern Appalachians.

### LITERATURE CITED

- Dey, J. P. 1984. Lichens of the southern Appalachian Mountain spruce-fir zone and some unanswered ecological questions. Pp. 139-150 in P.S. White (ed.), The Southern Appalachian Spruce-Fir Ecosystem: Its Biology and Threats. U.S. Department of the Interior, National Park Service, Research/Resources Management Report SER-71. 268 pp.
- Lawrey, J.D. and M.E. Hale, Jr. 1988. Lichens as indicators of atmospheric quality in the Dolly Sods and Otter Creek Wildernesses of the Monongahela National Forest, West Virginia. Unpublished report submitted to the Forest Supervisor, Monongahela National Forest, USDA-Forest Service, Elkins, WV.
- McCune, B. 1992a. Lichen Specialist Manual. Unpublished document. Department of Botany & Plant Pathology, Oregon State University.
- McCune, B. 1992b. Lichen Communities. Chapter 14 in C.J. Palmer and G.E. Byers (eds.),
  Quality Assurance Project Plan for Forest Health Monitoring. Internal
  Report. EPA/ / / . U.S. Environmental Protection Agency, Las Vegas, NV.
- McCune B. and J. Dey. 1994. Lichen Communities. Section 7 (pp. 7.1-7.14) *in* N.G. Tallent-Halsell (ed.), Forest Health Monitoring 1994 Field Methods Guide. EPA/ / . U.S. Environmental Protection Agency, Washington, D.C.
- Mc Cune, B., J. Dey, J. Peck, K. Heiman, and S. Will-Wolf. 1994. Lichen Communities. Chapter 8 (pp. 8.1-8.32) in T.E. Lewis and B.L. Conkling (eds.), Forest Health Monitoring Southeast Loblolly/Shortleaf Pine Demonstration Interim Report. EPA/620/R-94/006. U.S. Environmental Protection Agency, Washington, D.C.

Table 1.

### Collecting Sites in James River Face Wilderness Area

Plot number

State

County

Elevation

James River FWA Plot No. VIRGINIA. ROCKBRIDGE CO.: Elevation 1,440 ft

Gunter Ridge Trail (FS No. 8), approx. 0.55 mi E from the end of FS Road 3015 and above Little Hellgate Creek. Chestnut oak/scarlet oak community. Site is approx. 2.5 mi SE of Glenwood Ranger Station.

James River FWA Plot No. 10 VIRGINIA: ROCKBRIDGE CO.: Elevation 2,360 ft

Appalachian Trail, approx. 200 ft N of Marble Spring and 0.6 mi N/NE of Hichcock Knob. Forest of chestnut oak and hickory. Site is approx. 5.5 mi S/SE of Glenwood Ranger Station.

James River FWA Plot No. 2 VIRGINIA. ROCKBRIDGE CO.: Elevation 1,600 ft

Balcony Falls Trail (FS No. 7) approaching ridge top. Chestnut oak, scarlet oak, hickory forest. Site is near Rockbridge County & Bedford County line approx. 3.5 mi E/SE of Glenwood Ranger Station.

James River FWA Plot No. VIRGINIA. BEDFORD CO.: Elevation 1,200 ft

Appalachian Trail (No.1) on ridge above the James River approximately 0.75 mi SE of Matts Creek Shelter. Site is approx. 6.4 mi E/SE of Glenwood Ranger Station.

James River FWA Plot No. 4 VIRGINIA. BEDFORD CO.: Elevation 1,020 ft

Appalachian Trail (No.1) on ridge above the James River approximately 1.1 mi SE of Matts Creek Shelter. Site is approx. 6.7 mi E/SE of Glenwood Ranger Station.

James River FWA Plot No. 5 VIRGINIA. ROCKBRIDGE CO.: Elevation 3,073 ft

Highcock Knob summit on Appalachian Trail (No.1) north of the Blue Ridge Parkway. Hardwood forest. Site is approx. 5.7 mi S/SE of Glenwood Ranger Station.

James River FWA Plot No. 6 VIRGINIA. ROCKERIDGE CO.: Elevation 2,560 ft

Appalachian Trail (No.1), 0.35 mi E/NE of Petites Gap and 0.7 mi W/SW of Highcock Knob, north of the Blue Ridge Parkway. Hardwood forest. Site is approx. 5.5 mi S/SE of Glenwood Ranger Station.

James River FWA Plot No. 7 VIRGINIA. ROCKBRIDGE CO.: Elevation 2,517 ft

Belfast Trail (No.9) NE of Devils Marbleyard at gap 0.6 mi W of junction with Appalachian Trail. Hardwood forest of chestnut oak, hickory and red maple. Site is approx. 3.8 mi S/SE of Glenwood Ranger Station.

James River FWA Plot No. 8 VIRGINIA. ROCKBRIDGE CO.: Elevation 1,800 ft

Belfast Creek along Belfast Trail (No.9) near Devils Marbleyard . Forest of chestnut oak, red oak and dead yellow pine. Site is approx. 3.7 mi S/SE of Glenwood Ranger Station.

James River FWA Plot No. 9 VIRGINIA. ROCKBRIDGE CO.: Elevation 1,240 ft

Belfast Creek along Belfast Trail (No.9) near western boundary of wilderness area. Forest of chestnut oak, scarlet oak, yellow pine and laurel. Site is approx. 3.7 mi S of Glenwood Ranger Station.

Table 2.

### Collecting Sites in Mt. Rogers National Recreation Area

Plot number

State

County

Elevation

Mt. Rogers NRA Plot No. 1 VIRGINIA. GRAYSON CO.: Elevation 4,180 ft

Approx. 1,100 ft E of the road switchback (at 4,200 ft contour on FS Road 613 S of VA Route 603 W of Troutdale). Site is downslope from Third Peak Trail (No. 4521) and is approx. 2.1 miles SW of Troutdale.

VIRGINIA. GRAYSON CO.: Elevation 4,820 ft

Mt. Rogers NRA Plot No. 10 Cabin Creek, 1,000 ft S of its junction with Virginia Highland Trail (No. 337) and just N of Grayson Highlands State Park Boundary. Mixed spruce, fir & hardwood forest. Approx. 6.3 miles SW of Troutdale.

VIRGINIA. GRAYSON CO.: Elevation 3,880 ft

Mt. Rogers NRA Plot No. Pine Mountain Road (FS Road 613) approx. 800 ft north of junction with Highland Trail (No. 337), along Opossum Creek S of VA Route 603 W of Troutdale. Site is approximately 2.7 miles W/SW of Troutdale.

VIRGINIA. GRAYSON CO.: Elevation 5,540 ft

Mt. Rogers NRA Plot No. Mount Rogers, 1,200 ft E/SE of summit, on Mt. Rogers Spur Trail (No.4590) in the Lewis Fork Wilderness Area. Spruce/fir forest area. Site is approximately 6.5 miles west/southwest of Troutdale.

VIRGINIA. GRAYSON CO.: Elevation 5,340 ft

Mt. Rogers NRA Plot No. Approx. 0.75 mile S/SE of Mount Rogers summit on ridge to Pine Mountain & Cabin Ridge. Spruce/fir forest with yellow birch/maple. Site is near Appalachian Trail and approx. 6 miles W/SW of Troutdale.

VIRGINIA. SMYTH CO.: Elevation 5,340 ft

Mt. Rogers NRA Plot No. 5 Whitetop Mountain, 1,000 ft W/NW of summit. Spruce forest with red spruce, yellow birch, mountain ash understory. Site is at end of FS Road 89 W of VA Route 600 and is approx. 10.6 miles W/SW of Troutdale.

Mt. Rogers Whiteto

VIRGINIA. GRAYSON CO.: Elevation 4,920 ft
Whitetop Mountain, 0.25 mi E of summit, SE slope abov

Whitetop Mountain, 0.25 mi E of summit, SE slope above Whitetop Creek. Old northern hardwoods forest. Site is off of FS Road 89 W of VA Route 600 approx. 9.7 miles W/SW of Troutdale.

Mt. Rogers NRA Plot No.

7

VIRGINIA. SMYTH CO.: Elevation 4,420 ft

Elk Garden, approx. 600 ft NW of VA Route 600 at its intersection with Appalachian Trail.

Predominantly a sugar manle stand with some ash and wallow buckeye. Site is approx. 9

Predominantly a sugar maple stand with some ash and yellow buckeye. Site is approx. 9 miles W/SW of Troutdale.

Mt. Rogers NRA Plot No. 8 VIRGINIA. SMYTH CO.: Elevation 3,800 ft

Approx. 250 ft SE of FS Road FH17/VA Route 600--along 3,800 ft contour line S of Elk

Garden Trail Head (No. 4537) and NE of Big Branch. Cove forest of hardwoods and hemlock.

Approx. 9.2 miles W/SW of Troutdale.

VIRGINIA. GRAYSON CO.: Elevation 3,560 ft

Mt. Rogers NRA Plot No. 9 Near Little Wilson Creek, 500 ft N of junction with Big Wilson Creek, below Bearpen Ridge in Little Wilson Creek Wilderness. Mixed oak forest with rhododendron understory. Approx. 4.8 miles S/SW of Troutdale.

Table 3. Corticolous macrolichen species list by plot in James River Face Wilderness Area, Jefferson National Forest, Virginia--1994. Lichens identified by J. Dey.

			Plot	Diot	Plot	Plot	Plot	Plot	Plot	Plot	Dia+	Dio+
	Consider name	Sn code	Plot	Plot 2	3	P101 4	710t 5	6	7 Plot	8 8	Plot 9	Plot
	Species name	Sp. code			3	4		9		o .	<u> </u>	10
	Anaptychia palmulata	301					X		X	V		Х
2	Anzia copodes	402	ļ			Х	<del> </del>					
3	Candelaria concolor	8301					X			. ;		
4	Canoparmelia caroliniana	802	X			-	<u> </u>					X
5	Canoparmelia crozalsiana	803				X	<b></b>					
6	Canoparmelia texana	807			X							
7	Cetraria ciliaris	1006	<del></del>	V		X				<del></del>	X	
8	Cetraria oakesiana Cetraria orbata	1012	X	Х	Х	Х	X		Х	Х	Х	X
$\vdash$	Cetraria orbata Cetrelia chicitae	1102										
$\vdash$	Cetrelia olivetorum	1104	<b> </b>									
	Cladonia sp.	1200	ļ									
	Ciadonia bacillaris	1203										
9	Cladonia caespiticia	1207							х			
10	Cladonia chlorophaea s.l.	1210		X								
11	Cladonia coniocraea	1211	X	X		х	<b></b>				Х	
12	Cladonia cristatella	1212	<b></b>			<u>,</u>	<b></b>		×			
13	Cladonia cylindrica	1214	×		Х	<b></b>	İ		<u> </u>		х	
14	Cladonia didyma	1243	<u> </u>			Х		<b></b>		Х	X	
1 7	Cladonia floerkeana	1218								-,	-,	
	Cladonia furcata	1244	<b> </b>				<b></b>					
	Cladonia macifenta	1225										
	Cladonía merochlorophaea	1227										
	Cladonia ochrochlora	1228										
	Cladonia squamosa	1236										
15	Coccocarpia palmicola	1304									Х	
16	Collema nigrescens	1412									X	
	Everniastrum catawisiense	2501										
17	Flavoparmelia caperata	2601	Х	X	Х	Х	X	Х	Х		Х	Х
18	Flavopunctelia flaventior	2702						X				
	Heterodermia casarettiana	2804										
	Heterodermia granulifera	2812				Х						
20	Heterodermia hypoleuca	2813			X							
	Heterodermia leucomelos	2814										
21	Heterodermia obscurata	2816		X	X	X		X	X		X	
22	Heterodermia speciosa	2822									Х	
23	Heterodermia squamulosa	2823										Х
24		2901						Х				
ļ	Hypogymnia krogiae	3110	<b></b>									
	Hypogymnia physodes	3116	ļ									
-	Hypotrac. croceopustulata	3201	<b> </b>								V	V
25	Hypotrachyna livida	3208	<u> </u>		X	X					X	X
26	Hyptrachyna pustulifera	3215	X									
	Hypotrachyna revoluta	3216	<b> </b>						ļ			
27	Hypotrachyna showmanii	3218	<del></del> -	<del></del>								
	Imshaugia aleurites	3301	X	Х						X.		
	Leptogium corticola	3609	<b></b>						$\vdash \downarrow \vdash$	X		
Attendance	Lobaria pulmonaria	3905	<u> </u>						X			
30	Lobaria quercizans	3906	ļ						Х			
<b> </b>	Melanelia halei Menegazzia terebrata	4008 4101										
											~	
	Myelochroa aurulenta	4201			<u>X</u>	<u> X</u>	X	X		X	X	
32	Melochroa galbina	4202	X	X	X							
<u>_</u>	Parmelia fertilis	4801	<u> </u>	<u> </u>								
33		4805	X	Х	Χ	χ	Х	<u> </u>	X			X
<u> </u>	Parmelia suiceta	4806					Ĺ					

Table 3 (Continued). Corticolous macrolichens species list, James River Face Wilderness Area, Virginia-1994.

			Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot
	Species name	Sp. code	1	2	3	4	5	6	7	8	9	10
34		5100	X			<del>                                     </del>	<del>l</del>	<del>l                                     </del>	X	<del>                                     </del>	<del>                                     </del>	1 10
<u> </u>		5101		<del> </del>	х	<del> </del>	<del>                                     </del>	<del> </del>	_^_		<del> </del>	
3	Parmelinopsis horrescens	5102	х	Х	X	X	<del>                                     </del>	<del>                                     </del>	<del> </del>	Х	X	<del> </del>
36	Parmelinopsis minarum Parmotrema arnoldii	5301	<b>-</b>		<del>  ^</del> -	<del>  ^</del>	<del> </del>	<del> </del>	<del> </del>	^_	<del>  ^</del> -	<del> </del>
	Parmotrema crinitum	5305				<del>                                     </del>	<u> </u>					
	Parmotrema eurysacum	5310										
37	Parmotrema gardneri	5328									X	
38	Parmotrema hypotropum	5314	X	X	X	X	<u> </u>	<u> </u>			X	
39	Parmotrema margaritatum	5318					X		X	X		<u> </u>
40	Parmotrema perforatum	5323				X						X
	Parmotrema periata	5303										
41	Parmotrema stuppeum	5329				<u> </u>	<u> </u>				X	
42	Parmotrema subsumptum	5330	X		ļ		ļ	<u></u>			<u> </u>	
43	Phaeophyscia pusilloides	5613	X				<u></u>	X		Х	<u> </u>	
44	Phaeophyscia rubropulchra	5614		Х	Х	X	<u> </u>	X	X	Х	Х	X
	Physcia sp.	5700	<b></b>			1			<b>]</b>	<b></b>	1	<u> </u>
	Physcia aipolia	5702			ļ	<u> </u>		<u> </u>		<b> </b>	<u> </u>	<u> </u>
45		5704	ļ			X	<del> </del>	X		ļ	<del> </del>	ļ
1	Physcia millegrana	5716	ļ	Х	Х	X	X	X	X		<u> </u>	ļ
47	Physcia neogaea	5718	ļ	X		X	<b></b>	X	ļ		ļ	ļ
48	Physcia sorediosa	5722						X			ļ	ļ
49	Physcia stellaris	5723	X				<u> </u>	X	ļ	X		
	Platismatia tuckermannii Pseudevernia ciadonia	6106 6301			ļ							ļ
50	Punctelia appalachensis	6701			<b></b>	<b></b>	X	X	х			
	Punctelia missouriensis	6705		х	X	<b> </b>	<del>                                     </del>	<b></b>		X		
	Punctella IIIISSOUTIETISIS	6707				<del> </del>	<del> </del>		<b></b>		<del> </del>	
52		6708	×	X	х	1 x	Х	X	Х	Х	1	X
f	Punctelia semansiana	6709	X	X							1	X
54		6711	X	X		х					х	X
55		6803	<del>- ^-</del>				<del></del>			Х	<del>  ^</del>	
	Pyxine sorediata	6808		Х	Х	х	<u> </u>	X				Х
		6901				<del> </del>				~		
57	Ramaina internedia	6901			X				···	X	X	
58		7101	×		Х	X					х	· · · · · · · · · · · · · · · · · · ·
59	Rimelia reticulata	7104	x	Х	x	<u> </u>		X				Х
<del> </del>	Umbilicaria mammulata	1 1 1 2 3	<b> </b> ^			<b>†</b>		<u> </u>			<b></b>	
60		8014				Х						
	Usnea confusa	8018										
61	Usnea cornuta	8019			Х	Х						
62	Usnea hesperina	8040									Х	
63	Usnea mutabilis	8050		X	Х	Х						
64	Usnea rubicunda	8063	X	X	Х	Х			X	Х	Х	Х
65		8069	Х		Х				X	Х		
	Usnea subfloridana	8072										
اييا	Usnea subfusca	8073										
66	Usnea subscabrosa	8076	X						X			
		ļI										
$\sqcup$												
Щ												
$\sqcup$	Total Species Per Plot		23	21	25	27	12	17	18	16	22	15

Table 4. Corticolous macrolichen species list by plot in Mt. Rogers National Recreation Area, Jefferson National Forest, Virginia--1994. Lichens identified by J. Dey

			Plot	Plot	Plot	Plot	Plot	Plot	Plot	Dist	Diet	Dies
	Species name	Sp. code	1	2	3	4	5	6	7	Plot 8	Plot	Plot 10
Ħ	Anaptychia palmulata	301	<del>                                     </del>				<del>                                     </del>	X	X	X		1
	Anzia copodes	402						<del>  ^-</del> -	<del>  ^-</del> -		<del> </del>	<del> </del>
	Candelaria concolor	8301							<b> </b>			
	Carioparmelia caroliniana	802										
	Canoparmelia crozalsiana	803										
	Canoparmelia texana	807										
2	Cetraria ciliaris	1006	X									Ĺ
3	Cetraria oakesiana	1012	X	X	X	X	X	X	X	X	X	X
4	Cetraria orbata	1013				X						X
5	Cetrelia chicitae	1102	X		Х		Х	Х		X	X	
6	Cetrelia olivetorum	1104	ļ					X				
7	Cladonia sp.	1200	X									
8	Cladonia bacillaris	1203				Х	Х					
9	Cladonia caespiticia	1207		X					X	X		X
10	Cladonia chlorophaea s.l.	1210					X			Х		
11	Cladonia coniocraea	1211	<u> </u>		X						ļ	
	Cladonia cristatella	1212									ļ	
	Cladonia cylindrica											
12	Cladonia didyma	1243	X						X		Х	
13	Cladonia floerkeana	1218	<b></b>				X					
14	Cladonia furcata	1244	ļ		.,		Х		X			
15	Cladonia macilenta	1225	ļ		X				X		<b></b>	X
16	Cladonia merochlorophaea	1227	ļ		X	X						
17	Cladonia ochrochlora	1228			X	X						X
18	Cladonía squamosa Coccocarpia palmicola	1236			X	X	_X					·
	Collema nigrescens	1412										
19		2501	<b></b>					v				v
	Everniastrum catawbiense		⊢ <del>↓</del> ∣			~		X	V			X
	Flavoparmelia caperata	2601	X	<u> </u>		Х	Х	Х	X	Х	Х	X
21	Flavopunctelia flaventior	2702	<del>├</del> ─									
22	Heterodermia casarettiana  Heterodermia granulifera	2804	X									
	Heterodermia hypoleuca	2813	<b></b>									
23	Heterodermia leucomelos	2814									х	
24	Heterodermia obscurata	2816	X					Х	X		^_	
	Heterodermia speciosa	2822	<b> </b>							Х		
	Heterodermia squamulosa	2823	<u> </u>	Х				Х	Х			
20	Hyperphyscia adglutinata	2901		_^_								
27	Hypogymnia krogiae	3110			Х							Х
	Hypogymnia physodes	3116	×	X	X	×	х	Х	Х		Х	X
	Hypotrach. croceopustulata	3201	<u>-</u>	•	X	X	×					
	Hypotrachyna livida	3208	Х									
Ť	Hyptrachyna pustulifera	3215										
31	Hypotrachyna revoluta	3216	x				х		Х			
	Hypotrachyna showmanii	3218		х					X	х		
	Imshaugia aleurites	3301					х				Χ	···
	Leptogium corticola	3609										
34	Lobaria pulmonaria	3905						х	×			
	Lobaria quercizans	3906						х	X			
	Melanelia halei	4008	Х	Х				X	Х	Х		Х
	Menegazzia terebrata	4101								Х	Х	
	Myelochroa aurulenta	4201										
38	Melochroa galbina	4202	Х						Х			Х
	Parmelia fertilis	4801							Х			
	Parmelia squarrosa	4805		Х				х	х	X	Х	
	Parmelia suicata	4806	Х	-		х		X				X

Table 4 (Continued). Corticolous Macrolichen Species List, Mt. Rogers National Recreation Area, Virginia--1994.

			Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot
1	Species name	Sp. code	1	2	3	4	5	6	7	8	9	10
42	Parmelinopsis sp.	5100	X	X	† Š	X	† -	† – –	<del>                                     </del>	X	X	<del>  '`</del>
43	Parmelinopsis horrescens	5101	<del> </del>	x	X	Î	1 x		<u> </u>		X	<del> </del>
44	Parmelinopsis minarum	5102	<b>├</b> ^	Ŷ	<del>  ^</del> -	<del>  ^</del> -	<del>  x</del>	<del> </del>	<del> </del>	x	X	<del> </del>
J	Parmotrema arnoldii	5301		<u> </u>		<u> </u>	Î	<del>                                     </del>	<del> </del>	<u> </u>	<del>  ^</del> -	
46	Parmotrema crinitum	5305	x	х	Х	<u> </u>	<del>  ^ </del>	X	х	Х	Х	X
	Parmotrema cf. eurysacum	5310	x	_^_	_^		<del>                                     </del>	<del>  ^ </del>	<del>  ^</del>	^_		<del>  ^</del> -
-	Parmotrema gardneri	5328	<u> </u>				<del> </del>	<b></b>	<del> </del>			<b> </b>
48	Parmotrema hypotropum	5314						1			Х	
	Parmotrema margaritatum	5318						Х		l	Х	
	Parmotrema perforatum	5323										
50	Parmotrema perlata	5303					ļ	X			X	X
ļ	Parmotrema stuppeum Parmotrema subsumptum	5329 5330				<u> </u>	ļ	ļ	ļ			
5 1	Phaeophyscia pusilloides	5613		<u> </u>			<del>                                     </del>	X	ļ	X	<del> </del>	-
	Phaeophyscia rubropulchra	5614	X			<del> </del>		<del>  ^</del>		Ŷ	<del></del>	X
			<b> -^-</b>				<del> </del>	<del> </del>	<b></b>		X	<u> </u>
	Physcia sp.	5700	<b></b>				<del>                                     </del>	<u> </u>	<del>                                     </del>	ļ	<b></b>	X
54	Physcia aipolia Physcia americana	5702 5704				-		<del> </del>	X			
5.5	Physcia millegrana	5716	х				<del> </del>	<del> </del>	<del> </del>			
7,5	Physica neogaes	5718	<del></del>					<del>                                     </del>	<del> </del>			
	Physcia sorediosa	5722										
56	Physcia stellaris	5723	X						Х		Х	
57	Platismatia tuckermannii	6106			Х	X			Х	Х		Х
58	Pseudevernia cladonia	6301			Х	Х	Х					
59	Punctelia appalachensis	6701						X	Х			
	Punctelia missouriensis	6705										
	Punctelia reddenda	6707						<u> </u>	X			
	Punctelia rudecta	6708	X	X		<u> </u>	X	X	X			Х
	Punctelia semansiana	6709	X					<u> </u>	X	X		X
63	Punctelia subrudecta	6711	X			Х		<u>  x                                   </u>		Х	Χ	
C A	Pyxine caesiopruinosa	6803		х				<del>                                     </del>				
	Pyxine sorediata	6808	X					X				
-	Ramalina americana	6901	Х				Х	X	X	Х	X	Х
66	Ramalina intermedia	6918 7101						X				
67	Rimelia reticulata	7104		Х						X	Х	
	Umbilicaria mammulata	1104	X								x	
	Usnea ceratina	8014	<del>  ^  </del>								<del>`</del>	
	Usnea confusa	8018			X			<b>-</b>				
71	Usnea cornuta	8019			- <del>^</del> _							
	Usnea hesperina	8040			^_						Χ	
1	Usnea mutabilis	8050									_^_	
73	Usnea rubicunda	8063									Х	
	Usnea strigosa	8069	х	Х				Х		Х	X	х
	Usnea subfloridana	8072	X		Х	Х		X	x			X
	Usnea subfusca	8073	X		······································							
	Usnea subscabrosa	8076										
	Total Species Per Plot		3 1	16	17	16	18	26	28	23	26	24

Table 5. The fourteen corticolous macrolichen species found in each area respectively in five or more of the ten plots.

James River	Number of plots	Mt. Rogers	Number of plots
Cetraria oakesiana	9	Cetraria oakesiana	10
Flavoparmelia caperata	9	Flavoparmelia caperata	9
Phaeophyscia rubropulchra	9	Hypogymnia physodes	9
Punctelia rudecta	9	Parmotrema crinitum	8
Parmelia squarrosa	8	Parmelinopsis horrescens	7
Usnea rubicunda	8	Ramalina americana	7
Heterodermia obscurata	6	Cetrelia chicitae	6
Myelochroa aurulenta	6	Melanelia halei	6
Parmelinopsis mniarum	6	Punctelia rudecta	6
Physcia millegrana	6	Usnea strigosa	6
Parmotrema hypotropum	5	Usnea subfloridana	6
Punctelia subrudecta	5	Parmelia squarrosa	5
Pyxine sorediata	5	Platismatia tuckermanii	5
Rimelia reticulata	5	Punctelia subrudecta	5

Table 6. Some pollution tolerant and pollution sensitive lichen species collected in the James River Face Wilderness Area and in the Mount Rogers National Recreation Area, Virginia.

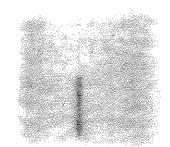
		James River Face	Mount Rogers
Pollution	tolerant <sup>1</sup>	Physcia millegrana Candelaria concolor Parmotrema hypotropum Phaeophyscia rubropulcra Flavoparmelia caperata	Physcia millegrana Parmotrema hypotropum Phaeophyscia rubropulchra Flavoparmelia caperata
Pollution	sensitive <sup>1</sup>	Canoparmelia caroliniana Hypotrachyna livida Heterodermia obscurata Rimelia reticulata Pyxine sorediata Usnea strigosa Parmelinopsis horrescens Parmelinopsis miniarum Punctelia rudecta Ramalina americana Usnea mutabilis	Hypotrachyna livida Heterodermia obscurata Rimelia reticulata Pyxine sorediata Usnea strigosa Parmelinopsis horrescens Parmelinopsis mniarum Punctelia rudecta Ramalina americana

Using preliminary FHM results of species tolerance of air pollution based on signed r<sup>2</sup> (=Irl\*r) to score species, where r is the correlation coefficient between species abundances and FHM plot scores on an air quality gradient in the southeastern United States (McCune et. al., 1994).

# APPENDIX A

Data Sheets for Corticolous Macrolichens Collected in the Summer of 1994 in Plots 1-10 in the James River Face Wilderness Area, Virginia.

(Also includes copy of plot packing slip and sample voucher label for each plot.)



### Lichen Identification Data Sheet Jefferson National Forest --1994

	, 0011011	2011 1484101181 1 01 004 1 1 0 1	
mes R	liver Face Wilderness Area Plot. No	Date: 6 -2/ -97	
tate:	Virginia	Collector K. Harmand S. Powers	-
	lack brilers.	Lichen Specialist   Dev	***********

_		Data to	enter							
	Species name	Sp. code	Abund.	Bag #	Α	Bag #	А	Bag #	Α	Comments
<b> </b> -	Anaptychia palmulata	301			123		123		123	
	Anzia copodes	402			123	***************************************	123	***************************************	123	
	Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	603			12.,3		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123		123		123	
7	Canoparmelia caroliniana	802	3	19	1.2.3		123		123	
	Cetraria americana				123	····	123		123	
	Cetraria ciliaris	1006			123	···	123		123	
	Cetraria . fendleri	1008			123		123		123	
4	Cetraria . oakesiana	1012	3	<i>J</i> 2_	12(3)	.//	9 123	21	1(2)3	
	Cetraria orbata	1013			123		1.,2.,3		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123	·	123		123	**************************************
	Cetrelia olivetorum	1104	<u></u>		123		123		123	
	Cladonia bacillaris	1203			123		123		123	#
	Cladonia caespiticia	1207			123		123		123	·····
	Cladonia chlorophaea s.l.	1210	<b> </b>		123		123		123	
	Cladonia coniocraea	1211	y.	23	12(3)		123		123	
	Cladonia cristatella	1212			123	<del> </del>	123		123	
4	Cladonia cylindrica	1214	-3	20	12.(3)		123		123	
	Cladonia didyma	1243			123		123		123	
1	Cladonia floerkeana		<u> </u>		123		123		123	
	Cladonia macilenta	1225			123		123		123	
	Cladonia mateocyatha	1245			123		123		123	
	Cladonia ochrochlora	1228			123		123		123	
	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
L_	Cladonia ramulosa(pityrea)	1234			12		123		123	
	Cladonia ravenelii				123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236	ļ	ļ	123		123		123	
	Cladonia subradiata				123		123		123	
	Cladonia vulcanica				123		123		123	
<u> </u>	Coccocarpia erthroxyli	1303			123		123		123	
L	Coccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412			123		123		123	
	Collema subflaccidum	1415	<u> </u>	<b></b>	123		123		123	
<u> </u>	Everniastrum catawbiense	2501	-,,	-72	123	_,	123	ا ا	12(3)	
5	Flavoparmelia caperata	2601	4	/6	≥123				123	
	Flavopunctelia flaventior	2702			123		123		123	
<u> </u>	Heteroderm. appalachensis	2802			123		123		123	
	Heterodermia casarettiana	2804			123		123		123	
	Heterodermia crocea	2806			123				123	
	Heterodermia granulifera	2812			123		123		123	
<u> </u>	Heterodermia hypoleuca	2813	<b></b>	<u> </u>	123		123		123	
<b> </b>	Heterodermia leucomelos	2814	<b></b>		123		123		123	
<b></b>	Heterodermia microphylla				123		123		123	
<b></b>	Heterodermia obscurata	2816	<b> </b>	<b></b>	123	·	123		123	
<b></b>	Heterodermia speciosa	2822	<b> </b>		123		123		123	
IL	Heterodermia squamulosa	2823	ļ	<b></b>	123		123		123	
	Hyperphyscia addiutinata	2901	<b></b>		123				123	
	Hyperphyscia syncolia		ļ	<b></b>	123		123		123	
<b></b>	Hypogymnia krogiae	3110	ļ		123		123		123	
<u>L</u>	Hypogymnia physodes	3116			123		123		1.,6,,3	

JRFW ALT 1 6-21-44

	//	Data to	enter		Ĭ	PARTY CAN DE MARKET MARKET.				<u> </u>
		Data to			<u> </u>	Bag #		74		
_	Species name	Sp. code	Abund.	Bag #	A	D#G #	A	Bag #	A	Comments
	Hypotrac. croceopustulata	3201			123		123		123	
	Hypotrac. gondylophora	3205			123		123		123	
	Hypotrachyna livida	3208		<b></b>	123		123		123	
	Hypotrachyna novella				123		123		123	
	Hypotrachyna osseoalba	3210			123		123		123	
6	Hyptrachyna pustulifera	3215	3	<u> </u>	12.3	6	12.3	ļ	123	TCC
	Hypotrachyna revoluta	3216			123		123		123	<u> </u>
	Hypotrachyna showmanii	3218			123		123		123	<u> </u>
	Hypotrachyna thysanota	3220			123		123		123	
7	lmshaugia aleurites	3301	3	359	12.(3)	.36.	①23	9	12.3	
	Imshaugia placorodia	3302			123		123		123	
	Lept austroamericana				123		123		123	
	Leptogium corticola	3609		<u></u>	123		123		123	
	Leptogium cyanescens	3611		<u> </u>	123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum				123		123		123	
	Lobaria pulmonaria	3905			123		123		123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii				123		123		123	
	Melanelia halei	4008			123		123		123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123		123	
	Myelochroa aurulenta	4201			123		123		123	
	Melochroa galbina	4202	五	2.5	1.(2)3	2.4	1(2).3		123	
-	Myelochroa metarevoluta	4203			123		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123		123		1.,2.,3	
	Pannaria rubiginosa	4711			123		123		123	
_	Pannaria tavaresii	4713			123		123		123	
10	Parmelia squarrosa	4805	2	28	1.2).3		123		12.,3	
-	Parmelia sulcata	4806		<u> </u>	123		123		123	
	Parmeliella corallinoides	4902			123		123		123	
-	Parmeliella tryptophylla	4904			123		123		123	
		5101			123		123		123	
-	Parmelinopsis horrescens	5102	<u> </u>	77	70.23	14	1263	10	12.3	
13	Parmelinopsis minarum	5/00	. <u></u>	21	12(3)		123		123	AC &
1/	Parmelinopsis 🚜.		<u>v</u>	<u> </u>	123		123		123	
	Parmeliopsis hyperopta	5202			123		123		123	
$\blacksquare$	Parmotrema arnoldii	5301		<del> </del>			123		123	
	Parmotrema austrosinese	5302		<u> </u>	123	! 	123		123	
	Parmotrema crinitum	5305			123	<del></del>				
	Parmotrema eurysacum	5310			123	, ,	123		123	
	Parmotrema of gardneri	5328		ļ	123		123		123	
12	Parmotrema hypotropum	5314	3	41	12(3)	16	1243		123	
	Parmotrema margaritatum	5318			123		123		123	
	Parmotrema mellissii	5319		ļ	123	<u></u>	123		123	
	Parmotrema michauxianum	5320			123		123		123	
	Parmotrema perforatum	5323		<u> </u>	123		123		123	
	Parmotrema perlata	5303			123		123		123	
	Parmotr. praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
13			ı.	34	1(2).3		123		123	
	Parmotrema tinctorum	5333			123		123		123	
	Parmotrema ultralucens	5334			123		123		123	
	Parmotrema xanthinum	5335			123		123		123	
	Phaeophyscia adiastola	5601			123		123		123	
. —	Phaeophyscia ciliata	5603			123		123		123	
	Phaeophys. erythrocardia	5604		<b></b>	123		123		123	
14	Phaeophyscia pusilioides	5613	之	1	1.(2).3		123		123	
<del>'</del>	Phaeophyscia rubropulchra	5614		<b>-</b>	123		123		123	
	LINGONHANCE INCHONNICIES		Language consequent	la constantina				أحسب سيسيط		

NRTW Plac 1 6-21-94

		Data to	enter	1						
	Species name	Sp. code	Abund	Bag #	A	8ag #	A	Bag #	Α	Comments
_	Physcia aipolia	5702		- 3	123		123		123	
$\mathbf{H}$	Physcia americana	5704	<u> </u>		123		123	· · · · · · · · · · · · · · · · · · ·	123	
$\parallel$	Physcia crispa				123		123		123	
$\vdash$	Physica miltegrana	5716			123		123		123	
	Physica neogaea	5718			123		123		123	
15	Physcia stellaris	5723	.1	13	12.(3)		1.,2.,3		123	
1	Physcielia chioantha	3			123		123		123	
	Physconia detersa	5901			123		123		123	
	Platismatia tuckermannii	6106			123		123		123	
	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123	·	123		123	
	Psudocyphellaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			1.,2.,3		1.,2.,3		123	
	Punctelia bolliana	6702			123		123		123	
-	Punctelia missouriensis	6705			123		123		123	
16	Punctelia rudecta	6707	3	29	<b>2</b> .3	16	وي.23	lš.	1.22.3	1 (2)
17	Punctelia semansiana	6708	1	1	1.(2)3		123		123	
	Punctelia subrudecta	6711	7	37	1,2,3	15	12.3		123	
المها	Pyxine caesiopruinosa	6803			123		123		123	
$\vdash$	Pyxine sorediata	6808			123		123		123	
	Ramalina americana	6901			123		123		123	
<del>                                     </del>	Ramalina stenospora	6932			123		123		123	
		6940			123		123		123	
74	Ramalina willeyi Rimelia cetrata	7101	حي	3/ (	D 123		123		123	
<u> </u>	Rimelia diffractaica	7103	<u> </u>	<u> </u>	123		123		123	
اما	Rimelia reticulata	7104	J	35-	Q123	//	123	4	1.2(.3)	
	Rimelia simulans	7105		-34	123		123		123	
`	Rimelia subisidiosa	7106			123		123		123	
	Sticta weigelii	7506			123		123		123	
<del>,  </del>	Usnea aciculifera	8001			123		123		123	1
	Usnea ceratina	8014			123		123		123	
	Usnea ceraulia Usnea cornuta	8019			123		123		123	
	Usnea dasaea	8020			123	· · · · · · · · · · · · · · · · · · ·	123		123	
$\vdash$	Usnea hesperina	8040			123		123		123	
$\vdash$	Usnea madeirensis	8047		<u> </u>	123		123		123	
	Usnea mutabilis	8050			123		123		123	
	Usnea occidentalis	8054			123		123		123	
	Usnea rubicunda	8063	3	43	120	400	123	30	1.(2).3	27(2) 12 3
44	Usnea strigosa	8069	Z	-360	1.23	20	₫\23		123	
	Usnea subfloridana	8072			123		123		123	
1	Usnea subscabrosa	8076	7.	77	<b>1</b> 0223		123		123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020			123		123		12.,3	
╟	Vulpicus Virius	1020			12		123		123	-
					123		123		123	
					123		123		1.,2.,3	
}					123		123		123	
$\vdash \vdash \vdash$					123		123		123	
┝─╢					123	·	123		123	
$\vdash$	Cladonia squamules only				123		123		123	squamules only-exclude
┝─┫	Crustose lichen				123		123		123	crustose forms-exclude
├─- <b>{</b>					123		123		123	bryophyte-exclude
┝─╢	bryophyte				123		123		123	
$\vdash \dashv$					123		123		123	
┝╌╢				<b></b>	123		123		123	
					,		7			
"							<b>†</b>			
			أجروا والمناوات							



Lichen CommunitiesPLOT PACKING SLIP FHM, 1994	
Plot hex number:   State: VA County: ROCK BA: Uge  K. H. CKMAN  Late: 6-21-94  Crew Member's Name: S. Powers Crew number:   No.	
A copy of this sheet will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY.	
Record the time lichen sampling began: 10.50  Record the time lichen sampling ended: 12:45  Total time spent sampling the plot: 1 m. 55 min	
Comments about the plot, the lichens, the vegetation, and/or the weather:  HAZEY-HUMID: HOT Chestrus OAK S. OAK	
B. Gum	
Lichens of James River	

REMEMBER:

Record the abundance of Remember to look for to Try to put only one spe

Face Wilderness Area

VIRGINIA. ROCKBRIDGE CO.:

James River FWA Plot No. 1 Elevation 1,440 ft
Gunter Ridge Trail (FS No. 8), approx. 0.55 mi E from
the end of FS Road 3015 and above Little Hellgate
Creek. Chestnut oak/scarlet oak community. Site is
approx. 2.5 mi SE of Glenwood Ranger Station.

Collected by Ken Hickman & Susan Powers June 21, 1994

No. 1-

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

### Lichen Identification Data Sheet Jefferson National Forest --1994

James River Face Wilderness Area Plot. No. 2

State: Virginia
County: Louis, Lgc.

Elec 1000 for

Collector A

Date:

por + S. Poules

		Data to	enter		1	1			·	
	Species name	Sp. code	Abund.	Bag#	Α	Bag #	Α	Bag #	Α	Comments
	Anaptychia palmulata	301			123		123		123	
	Anzia copodes	402			123		123		123	
1	Bryoria bicolor	602			123		123		123	
-	Bryoria furcellata	603			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria . fendleri	1008			123		123		123	
7	Cetraria . oakesiana	1012	7.	3 <b>/</b>	1,22.3		123		123	
	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia bacillaris	1203			123		123		123	
	Cladonia caespiticia	1207			123		123		123	
2-	Cladonia chlorophaea s.i.	1210	7		<b>9</b> 1 .3		123		123	
1	Cladonia coniocraea	1211	J	8	1(2).3	J)	1.21.3	<i>3</i> 3	1.22,3	
	Cladonia cristatella	1212			123		123		123	
	Cladonia cylindrica	1214			123		123		123	
	Cladonia didyma	1243			123		123		123	
	Cladonia floerkeana				123		123		123	
`	Cladonia macilenta	1225			123		123		123	
	Cladonia mateocyatha	1245			123		123		123	
1	Cladonia ochrochlora	1228			123		123		12.,3	
	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
	Cladonia ramulosa(pityrea)	1234			123		123		123	
	Cladonia ravenelii				123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123	
	Cladonia subradiata				123		123		123	
	Cladonia vulcanica				123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Coccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412			123		123		123	
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501			123		123		123	
4	Flavoparmelia caperata	2601	Ų.	12	1.023	45	12(3)	46	1 (2),3	15 (3) 4 (3) 19(
	Flavopunctelia flaventior	2702			123		123		123	13(2)
	Heteroderm, appalachensis	2802			123		123		123	
<b>  </b>	Heterodermia casarettiana	2804			123		123		123	
	Heterodermia crocea	2806			123		12.,3		123	
	Heterodermia granulifera	2812			123		123		123	
	Heterodermia hypoleuca	2813			123		123		123	
$\vdash$	Heterodermia leucornelos	2814	i		1.,23		123		123	
	Heterodermia microphylla				123	i	123		123	
	Heterodermia obscurata	2816	· V	7	12.3		123		123	
	Heterodermia speciosa	2822			123		123	<del></del>	123	
	Heterodermia squamulosa	2823			123		123		123	
L	Hyperphyscia adglutinata	2901			123		123		123	
-	Hyperphyscia syncolla	2001			123		123		123	
_	Hypogymnia krogiae	3110			123		123		12.,3	
	Hypogymnia physodes	3116			123		123		123	
	Trypodymina priysoucs				1 0 0					

UNFW \$60 2 6-22-94

	1	Data   10		1	Ţ		7	7		
····4	Sanda and	Data to Sp. code	enter Abund	04	ļ	5				
-	Species name		Abula	Bag #	A	Bag ≭	A	Bag #	<u> </u>	Comments
ı	Hypotrac, croceopustulata	3201			123		123		123	
-	Hypotrac, gondylophora	3205			123		123		123	
<b> </b>	Hypotrachyna livida	3208	<del> </del>	<b>}</b>	123		123		123	
1	Hypotrachyna novella		ļ	<b>!</b>	123		123		123	
<b> </b>	Hypotrachyna osseoalba	3210	ļ	<b> </b>	123		123		123	
-	Hyptrachyna pustulifera	3215	ļ	<b> </b>	123		123		123	
<u> </u>	Hypotrachyna revoluta	3216	<b>ļ</b>	<u> </u>	123		123		123	
	Hypotrachyna showmanii	3218	ļ		123		123		123	
<b> </b>	Hypotrachyna thysanota	3220	ļ		123		123		123	
6	Imshaugia aleurites	3301	3	40	12(3)		123		123	
-	Imshaugia placorodia	3302	ļ		123		123		123	
-	Lept_austroamericana		<b></b>		123		123		123	
-	Leptogium corticola	3609	ļ		123		123		123	
<b> </b>	Leptogium cyanescens	3611			123		123		123	
<u> </u>	Leptogium laceroides	3624			123		123		123	
<u> </u>	Leptogium teretiusculum				123		123		123	
	Lobaria pulmonaria	3905			123		123		123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii				123		123		123	
	Melanelia halei	4008			123		123		123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123	]	123	
	Myelochroa aurulenta	4201			123		123		123	
7	Melochroa galbina	4202	j	14	(1)23		123		123	
	Myelochroa metarevoluta	4203			12_3		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123		123		123	
	Pannaria rubiginosa	4711			123		123	·	123	
	Pannaria tavaresii	4713			123		123		123	
18	Parmelia squarrosa	4805	7	16	@123		123		123	
	Parmelia sulcata	4806			123	<del></del>	123		123	
	Parmeliella corallinoides	4902			123		123		123	**************************************
	Parmeliella tryptophylla	4904			123		123	·····	123	
	Parmelinopsis horrescens	5101			123		123		123	
9	Parmelinopsis minarum	5102	ا تر	17	1 3	/ (	123	17	1(2).3	24 6
1	Parmelinopsis spumosa	5104		- <del> </del>	123		123		123	
1	Parmeliopsis hyperopta	5202			123		123	<del></del>	123	
1	Parmotrema arnoldii	5301			123		123		123	
-	Parmotrema austrosinese	5302			123		123	<del></del>	123	
	Parmotrema crinitum	5305			123		123	<del></del>	123	
		5310			123		123		123	
	Parmotrema eurysacum									
	Parmotrema cf gardneri	5328	-3	17	123	42	123		123 1. <i>Q</i> ).3	
18	Parmotrema hypotropum	5314		/	1/2)3	74		ZY		
-	Parmotrema margaritatum	5318			123		123		123	
-	Parmotrema mellissii	5319			123		123		123	
-	Parmotrema michauxianum	5320			123		123		123	
	Parmotrema perforatum	5323			123		123		123	
	Parmotrema perlata	5303			123		123		123	
1	Parmotr, praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329		i	123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
	Parmotrema subsumptum				123		123	Į.	123	
	Parmotrema tinctorum	5333	i		123		123		123	
	Parmotrema ultralucens	5334			123		123		123	
	Parmotrema xanthinum	5335			123		123		123	
J	Phaeophyscia adiastola	5601			123		123		123	
	Phaeophyscia ciliata	5603			123		123		123	
	Phaeophys, erythrocardia	5604			123		123		123	
	Phaeophyscia pusilloides	5613			123		123		123	
-	Phaeophyscia rubropulchra	5614	,}	7	ا 23		123		123	
السائسان		Britain Commission	اسيسيطح				والمستنزز في المراجع			

JAFW PLET 2 6-22-94

	li de la companya de	Data to	enter	N .	ĺ	ĺ		1	]	
	Species name	Sp. code		Bag #	Α	8ag #	Α	Bag #	A	Comments
	Physcia aipolia	5702	T		123		123		123	
	Physcia americana	5704			123		123		123	
	Physcia crispa				123		123		123	
12	Physcia millegrana	5716	قی ا	23	123		123		123	
۔ر	Physica neogaea	5718	3		123	14	(J123		123	
•	Physcia stellaris	5723			123		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901	1		123		123	· . · · · · · · · · · · · · · · · · · ·	123	
	Platismatia tuckermannii	6106	1		123		123		123	
	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123		123	
	Psudocyphellaria aurata		1		123	<del></del>	123		123	
	Psudocyphellaria crocata	6404	İ		123		123	<del></del>	123	
	Punctelia appalachensis	6701			123		123		123	
	Punctelia bolliana	6702			123		123		123	
14	Punctelia missouriensis	6705	7	13	12.3		123		123	147(1) 6 @ 180
15	Punctelia rudecta	6707	<i>3</i>	36	1.(2)3	10	1(2.3	- //	23	322 41(3) 1
iĠ	Punctelia semansiana	6708	Ž	2.6	12.(3)	<u> </u>	12.6	16	1(2).3	21 (2) 22 (2)
17	Punctelia subrudecta	6711	1	B	1(2)3		9123		9 123	29 (1) 2849
	Pyxine caesiopruinosa	6803			123		123	<u> </u>	123	12 (D 25 (D)
13	Pyxine caesiopraniosa  Pyxine sorediata	6808	.,	22	2.2.3		123		123	
-2		<del></del>	<u> </u>		Y					
	Ramatina americana	6901			123	···	123		123	
	Ramalina stenospora	6932			123		123		123	<u> </u>
	Ramalina willeyi	6940			123		123		123	
	Rimelia cetrata	7101			123		123		123	
	Rimelia diffractaica	7103			123	·	123		123	
5	Rimelia reticulata	7104	<u> </u>	9	12.75	3/	1.(2)3	3 (	<u> </u>	
	Rimelia simulans	7105			123		123		123	
	Rimella subisidiosa	7106			123		123		123	
	Sticta weigelii	7506			123		123		123	
	Usnea aciculifera	8001			123		123		123	
I	Usnea ceratina	8014			123		123		1_23	
	Usnea cornuta	8019			123		123		123	
	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040			123		123		123	
	Usnea madeirensis	8047			123		123		123	
حندا	Usnea mutabilis	8050	.,	40	1.(2).3	43	1.(2).3	44	<b>⊘</b> 23	48 (2)
1	Usnea occidentalis	8054			123		123		123	
2]	Usnea rubicunda	8063	تی	15	12239	44	1,2)3	494	1.0\3	50(1) 54(2)
	Usnea strigosa	8069			123		123		123	
- 1	Usnea subfloridana	8072			123		123		123	
7	Usnea subscabrosa	8076			123		123		123	
	Xanthoria candelaria	8201			123		123		123	
-	Vulpicida viridis	1020			123		123		123	
	Tapicias Trias	1020			123		123		123	
					123		123		123	
					123		123		123	
-					123	······································	123		123	
					123		123		123	
					123		123		123	
	Cladania agramules est			-,,	1.2.3		123		123	squamules only-exclude
	Cladonia squamules only			_//_			123		123	crustose forms-exclude
	Crustose lichen				1/2/3					
	bryophyte				123		123		123	bryophyte-exclude
_					123		123		123	
_					123		123		123	
_					123		123		123	
	ii ii		#		. 1		· .	1		

Lichen CommunitiesPLOT PACKING SLIP FHM, 1994
Plot hex number: 2 State: VA. County: Rockbridge
Date: 6/22   Galw Member's Name: 6. Phoenerew number: 1
A copy of this sheet will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY.
Record the time lichen sampling began: 10:30
Record the time lichen sampling ended: 12:30  Total time spent sampling the plot: 2 his.
Comments about the plot, the lichens, the vegetation, and/or the weather:
C. ONE, Hickory S. ONE

# REMEMBER:

Record the abundar Remember to look Try to put only one Lichens of James River Face Wilderness Area

VIRGINIA. ROCKBRIDGE CO.:

James River FWA Plot No. 2

Elevation 1,600 ft

Balcony Falls Trail (FS No. 7) approaching ridge top. Chestnut oak, scarlet oak, hickory forest. Site is near Rockbridge County & Bedford County line approx. 3.5 mi E/SE of Glenwood Ranger Station.

Collected by Ken Hickman & Susan Powers June 22, 1994

No. 2-

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

### Lichen Identification Data Sheet Jefferson National Forest --1994

mes River Face Wilderness Area Plot. No. \_\_\_\_\_\_\_\_

:ate:

County: .

Virginia bofferd Date: Collector

HALAMEN 7 S. POURSE

Lichen Specialist

J. Dey

		Data to	enter				1			
	Species name	So. code	Abund	Bag #	Α	Bag #	A	Bag #	Α	Comments
<b>-</b>		30. 000			123		123		123	
	Anaptychia palmulata Anzia copodes	402			123		123		123	
<b></b>	Bryoria bicolor	602		<b></b>	123		123		123	
	Bryoria furcellata	609			123		123		123	
<b> </b>	Candelaria concolor	8301			123	····	123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmella caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria . fendleri	1008			123		123		123	
7	Cetraria . oakesiana	1012	y <sup>j</sup>		12.3	7	122.3	16	12.③	
	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia bacillaris	1203	ļ <u> </u>		123		123		123	
	Cladonia caespiticia	1207			123		123	<del> </del>	123	
	Cladonia chiorophaea s.i.	1210	<b></b>	<u> </u>	123		123		123	
	Cladonia coniocraea	1211			128		123		123	
	Cladonia cristatella	1212	5	و ز	12.3		123		123	The
1	Cladonia cylindrica	1214	- ترد	13.3	123		123		123	
	Cladonia didyma	1243	ļ		123		123		123	
"—	Cladonia floerkeana	1225		<u> </u>	123		123		123	
-	Cladonia macilenta Cladonia mateocyatha	1245	<u> </u>		123		123		123	
. —	Ciadonia mateocyadia Ciadonia ochrochlora	1228			123		123		123	
-	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
	Cladonia ramulosa(pityrea)	1234			123		123		123	
<b> </b>	Cladonia ravenelii				123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123	
	Cladonia subradiata				123		1,.23		123	
	Cladonia vulcanica				123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Çoccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412			123		123	<u> </u>	123	
	Collema subflaccidum	1415	<u> </u>		123		123		123	
	Everniastrum catawbiense	2501			123	- 77	123	1:4	12.3	
1	Flavoparmelia caperata	2601	Ų,		12.(3)	//	12.(3)	152	123	
ļ	Flavopunctelia flaventior	2702	<u> </u>		123		123		123	
	Heteroderm, appalachensis	2802	ļ	<b></b>	123		123	<u> </u>	123	
	Heterodermia casarettiana	2804			123		123	<del> </del>	123	
	Heterodermia crocea	2806	<u> </u>		123		123		123	
	Heterodermia granulifera	2812	3	<del></del>	123		123		123	
4	Heterodermia hypoleuca	2813	<del> </del>	2/_	123		123	<u> </u>	123	
	Heterodermia leucomelos	2814	<del> </del>		123		123		123	
	Heterodermia microphylla	2816	3	14	@123	Z.O	1.2(3/	35	12.(3/	
1-2	Heterodermia obscurata	2822	~ _	- CF	123		123	<u> </u>	123	
-	Heterodermia speciosa Heterodermia squamulosa	2823	<del>                                     </del>		123		123	]	1,.23	
11	Hyperphyscia adglutinata	2901	<del>                                     </del>		123		123		123	
	Hyperphyscia syncolla	<u> </u>	<del>                                     </del>		123		123		123	
اسمر ر	Hypogymnia krogiae	3110			123		123		123	
-	Hypogymnia physodes	3116		1	123	1	123		1.2.3	
15	TOTAL STREET	n	I was not been a second			The same of the sa	استبادت ويبرون يوال	تنزأج استعارتنى وراوي وروي		

JAFLE PLOT S 6-24-94

	JIFW FO		29.7				7			
· · ·		Data to	enter	N		D4	<u> </u>			
<u> </u>	Species name	Sp. code	Abund	Bag #	L A	Bag #	A	Bag #	Α	Comments
·	Hypotrac. croceopustulata	3201			123		123		123	
	Hypotrac. gondylophora	3205		<u> </u>	123		123		123	
6	Hypotrachyna livida	3208		2_	1.(2).3	/3	12(3)		123	
	Hypotrachyna novella				123		123		123	
	Hypotrachyna osseoaiba	3210		<u></u>	123		123		123	
	Hyptrachyna pustulifera	3215			123		123		123	
	Hypotrachyna revoluta	3216			123		123		123	
	Hypotrachyna showmanii	3218			123		123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	lmshaugia aleurites	3301			123		123		123	
	Imshaugia placorodia	3302		<u></u>	123		123		123	
	Lept_austroamericana			<u> </u>	123		123		123	
	Leptogium corticola	3609			123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum				123		123		123	
	Lobaria pulmonaria	3905			123		123		123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii				123		123		123	
	Melanelia halei	4008			123		123		123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123		123	
-7	Myelochroa aurulenta	4201	7	3/	G123		123		123	
3	Melochroa galbina	4202	Ť		D123		123		123	
	Myelochroa metarevoluta	4203			123		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123		123		123	
$\neg$	Pannaria rubiginosa	4711			123		123		123	
-	Pannaria tavaresii	4713			123		123		123	
19	Parmelia squarrosa	4805	3	30	1.2.3		123		123	
1	Parmelia sulcata	4806			123		123		123	
$\vdash$	Parmeliella corallinoides	4902			1.2.3		123		1.2.3	
	Parmeliella tryptophylla	4904			123		123		123	
دير	Parmelinopsis horrescens	5101	ق	14	£123		123		123	
77		5102	3		123	27	1(2)3		123	
	Parmelinopsis minarum	5104			123		123		123	
	Parmelinopsis spumosa	5202			123		123		123	
-	Parmeliopsis hyperopta	5301			123		123		123	
<b>  </b>	Parmotrema arnoldii						123		123	
	Parmotrema austrosinese	5302			123		123		123	
	Parmotrema crinitum	5305			123					
<b> </b>	Parmotrema eurysacum	5310			123		123		123	
	Parmotrema of gardneri	5328			123		123		12.3	
	Parmotrema hypotropum	5314		4	12.3	12-	12(3)	19		
<b></b>	Parmotrema margaritatum	5318			123		123		123	
<b>  </b>	Parmotrema mellissii	5319			123		123		123	
	Parmotrema michauxianum	5320			123		123		123	
L	Parmotrema perforatum	5323			123		123		123	
	Parmotrema periata	5303			123		123		123	
	Parmotr. praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
	Parmotrema subsumptum				123		123		123	
	Parmotrema tinctorum	5333			123		123		123	
	Parmotrema uitralucens	5334			123		123		123	
	Parmotrema xanthinum	5335			123		123		123	
	Phaeophyscia adiastola	5601			123		123		123	
. ┪	Phaeophyscia ciliata	5603			123		123		123	
┢═┩	Phaeophys, erythrocardia	5604			123		123		123	
	Phaeophyscia pusilloides	5613			123		123		123	
4	Phaeophyscia rubropulchra	5614	<u>.</u>	싢	1.2(3)		123		123	
ليكنيا	reacounty such control is	<u> </u>			1					

URFW ALE I 6-24-84

		Data to	ant-							
$\dashv$	Species name	Sp. code	Abund.	Bag #	Α	8ag #	A	Bag #	Α	Comments
7	Physcia aipolia	5702			123		123		123	
-	Physcia americana	5704			123		123	1	123	
	Physcia crispa	<b>1</b>		ļ	123		123		123	
14	Physcia millegrana	5716	.,	4	9123	35	9123	71	1.(2)3	
<del>/                                    </del>	Physica neogaea	5718			123		123		123	
_	Physcia stellaris	5723			123		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901			123		123		123	
1	Platismatia tuckermannii	6106			123		123		123	
	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123	<u> </u>	123	
	Psudocyphellaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			123		123		123	
	Punctelia bolliana	6702			123		123	<u> </u>	123	
15	Punctelia missouriensis	6705	J	J2.	12.(3)		123		123	
16	Punctelia rudecta	6707	4	_5_	①.23	6	12.(3)	18	12.(3)	<u></u>
	Punctelia semansiana	6708			123		123	ļ	123	<u> </u>
	Punctelia subrudecta	6711			123		123		123	
	Pyxine caesiopruinosa	6803	ļ		123		123		123	
17	Pyxine sorediata	6808	-37	15	12.3	24	1/2/3	1/	1.(2),3	
18	Ramalina americana	6901	Z	4	1 (2).3		123		123	
	Ramalina stenospora	6932			123		123		123	
	Ramalina willeyi	6940			123		123		123	
19	Rimelia cetrata	7101	j	2.5	12(3)		123		123	
	Rimelia diffractaica	7103			123		123		123	
تن	Rimelia reticulata	7104	3	10	12(3)	35	12./3		123	
	Rimelia simulans	7105			123		123	ļ	123	
J	Rimella subisidiosa	7106			123		123	Ļ	123	
	Sticta weigelii	7506			123		123		123	
	Usnea aciculifera	8001			123		123	<u></u>	123	
	Usnea ceratina	8014			123		123		1.2.3	TIL
21	Usnea cornuta	8019	.3	40	12.(3)		123		123	
	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040		ļ	123		123	<b></b>	123	
	Usnea madeirensis	8047			123		123	,	123	
2-	Usnea mutabilis	8050	4	2.4	1/2).3	76	1(2).3	37		
	Usnea occidentalis	8054		<u> </u>	123	14	123	26	123	
2.7	Usnea rubicunda	8063	- 4	- 22	1.(2)3	Lle-		29		
24	Usnea strigosa	8069	ري	39	12(3)		123	<u> </u>	123 123	
	Usnea subfloridana	8072	ļ		123		123	<u> </u>	123	
	Usnea subscabrosa	8076			123		<del></del>	<del></del>	123	
	Xanthoria candelaria	8201	<b> </b>	<b> </b>	123		123	ļ	123	
	Vulpicida viridis	1020	<b></b>	<b></b>	123		123		123	
25	Congemelia	<b>D.</b> =	<del>                                     </del>	17	123		123	<del>                                     </del>	123	
	- true	8.7	d	<del>-                                    </del>			123		123	
		<u> </u>	<u> </u>	<b></b>	123		123		123	
#		<b> </b>		<b></b>	123		123	<del> </del>	123	
		<b> </b>	<b></b>	<b></b>	123		123	<b> </b>	123	
		<b> </b>		1	123		123	<b> </b>	123	squamules only-exclude
	Cladonia squamules only	<b> </b>			123		123	<b> </b>	123	crustose forms-exclude
_	Crustose lichen			<b></b>	123		123	<b></b>	123	bryophyte-exclude
	bryophyte			<b>}</b>	123		123	<del> </del>	123	
- 4		<b> </b>		<b></b>	123		123	<b></b> -	123	
		A	L	<b>L</b>	123			ļ		
				li			1 1 2 2		122	1
					123		123		123	

FHM, 1994

_	•			· <u>V</u>	<b>17</b>
Plot hex number	r: <b>3</b> St	ate: Mc	ounty: B	FDF	
il sala	w Member	'a Name	& Power	م م ه و ت v number: د	pares.
Date.	M MONIOCI	3 1 vanio. Z	77		

A copy of this sheet will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY.

Record the time lichen sampling began: 0900

Record the time lichen sampling ended: 1000

Total time spent sampling the plot: 2000

Lichen CommunitiesPLOT PACKING SLIP

Comments about the plot, the lichens, the vegetation, and/or the weather:

HOFE	tumid	STOR	-M CA	me /a	IAPTO	
PIOT	1				A. W. Wife	A Park
			Visit Marie		SAP LO MA	

Lichens of James River face Wilderness Area

## REMEMBER:

Record the abundan Remember to look i Try to put only one

VIRGINIA. BEDFORD CO.:

James River FWA Plot No. 3 Elevation 1,200 ft
Appalachian Trail (No.1) on ridge above the James River
approximately 0.75 mi SE of Matts Creek Shelter. Site
is approx. 6.4 mi E/SE of Glenwood Ranger Station.

Collected by Ken Hickman & Susan Powers June 24, 1994

No. 3-

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

## James Knowskie Willemas t. Rogers National Recreation Area Plot. No.

late:

Lichen Identification Data Sheet Jefferson National Forest -- 1994

Date: Collector

Virginia Ack for 8 County: .

Lichen Specialist

J. Dey

	F	D-4- 4-		1					I	
	S	Data to Sp. code	enter Abund	Bag #	A	Bag #	A	Bag #	A	Comments
<b> </b>	Species name		Abuna	Day *	123	Day #	123	Oay #	123	Considered
<u></u>	Anaptychia palmulata	301 402	d.	61	1.2.3		123		123	
	Anzia copodes	602		<u> </u>	123		123		123	
-	Bryoria bicolor	602			123		123		123	
<b> </b>	Bryoria furcellata	8301		<b></b>	123		123		123	
-	Candelaria concolor	8302		<u> </u>	123		123		123	
ļ	Candelaria fibrosa	802			123		123		123	<del></del>
<b> </b>	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana	1006	3	9	1.2.3		123		123	
4	Cetraria ciliaris	1008		7	123		123		123	
ļ.,	Cetraria . fendleri	1012	7	25	12.3		123		123	
1	Cetraria . oakesiana	1012	, y		123		123	·······	123	
<b> </b> i	Cetraria orbata	1101			123		123		123	
<b> </b>	Cetrelia cetrarioides s.l.			<del> </del>	123		123		123	
<b></b>	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
<b></b>	Cladonia bacillaris	1203		<u> </u>	123		123		123	
<b>_</b>	Cladonia caespiticia	1207	<b> </b>	<b> </b>	123		123	<del></del>	123	
	Cladonia chlorophaea s.i.	1210				4.	©123		123	
4	Cladonia coniocraea	1211	-3	674		2/	123		123	
<u> </u>	Cladonia cristatella	1212		<u> </u>	123		123		123	
	Cladonia cylindrica	1214			123		12.3	24	12.3	
_2_	Cladonia didyma	1243	-3	66	1.:2.6	2/		<u> </u>		
n	Cladonia floerkeana		<b></b>	<u> </u>	1:.23		123		123	
سر	Cladonia macilenta	1225			123		123		123	
	Cladonia mateocyatha	1245	ļ	<b></b>	123		123	<u> </u>	123	
<u></u>	Cladonia ochrochlora	1228			123	<u> </u>	123			
	Cladonia parasitica	1229		<b></b>	123		123	<u> </u>	123	
	Cladonia peziziformis	1242			123		123		123	
	Cladonia ramulosa(pityrea)	1234		<u> </u>	123		123		123	
	Cladonia ravenelii		ļ		123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123	
	Cladonia subradiata				123		123	<u> </u>	123	
L	Cladonia vulcanica				123		123		123	
L	Coccocarpia erthroxyli	1303			123		123	<u> </u>	123	
	Coccocarpia palmicola	1304		ļ	123		123	<u> </u>	123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412			123		123	ļ	123	
	Collema subflaccidum	1415			123		123	<u> </u>	123	
	Everniastrum catawbiense	2501			123		123	<del></del>	123	
i	Flavoparmelia caperata	2601	- <b>y</b>	64	12.(3)	<i>i</i> 3	12.(3)	8	12.3	
	Flavopunctelia flaventior	2702			123	<u> </u>	123		123	
1	Heteroderm, appalachensis	2802		<u> </u>	123	<u></u>	123	<u> </u>	123	
	Heterodermia casarettiana	2804			123	<u> </u>	123	<u> </u>	123	
	Heterodermia crocea	2806			123		123	<u> </u>	123	
7	Heterodermia granulifera	2812	-5	66	.23	6.5	9123		123	
	Heterodermia hypoleuca	2813			123		123	<u> </u>	123	
	Heterodermia leucomelos	2814			123	<u> </u>	123		123	
	Heterodermia microphylla				123		123	<u> </u>	123	
P	Heterodermia obscurata	2816	J <sup>2</sup>	69	€123	23	12.(3)	<u> </u>	123	
	Heterodermia speciosa	2822			123		123	<u> </u>	123	
	Heterodermia squamulosa	2823			123		123		123	
***************************************	Hyperphyscia adgiutinata	2901			123		123		123	
_	Hyperphyscia syncolla				123		123		123	
<del></del>	Hypogymnia krogiae	3110			123		123		123	
	Hypogymnia physodes	3116	1		123		123		123	
It	H 11350033111110 by 1300000		Annual Control of the	U		والمتراكات والتناب والمتراكات والمتراكات	الزمناه والمستجوب والمتراج	فبحب يعجبه بالمراجع والمراجع		

JRFW MOTY 6-25-94

		Data to	enter			,				
7	Species name	Sp. code	Abund.	Bag #	A	Bag #	Α	Bag #	Α	Comments
=	Hypotrac. croceopustulata	3201			123		123		123	
-	Hypotrac. gondylophora	3205			123		123		123	
4	Hypotrachyna livida	3208	3	7.	12.3	11	123	LP	12(3)	
-	Hypotrachyna novella				123		123		123	
-	Hypotrachyna osseoaiba	3210			123		123		123	
	Hyptrachyna pustulifera	3215			12,.3		123		123	
	Hypotrachyna revoluta	3216			123		123		123	
	Hypotrachyna showmanii	3218			123	<del>,</del>	123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	imshaugia aleurites	3301			123		123		123	
	(mshaugia placorodia	3302			123		123		123	
	Lept_austroamericana				123		123		123	
	Leptogium corticola	3609			123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum				12.,3		123		123	
	Lobaria pulmonaria	3905			123		123	<u></u>	123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii				123		123		123	
	Melanelia halei	4008			123		123		123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123		123	
10	Myelochroa aurulenta	4201	-yl	69	<b>©</b> 123	4	<b>1.23</b>	3/2	12(3)	
	Melochroa galbina	4202			123		123		123	
	Myelochroa metarevoluta	4203			123		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123		123		123	
	Pannaria rubiginosa	4711			123		123		123	
	Pannaria tavaresii	4713			123		123		123	
1	Parmelia squarrosa	4805	3	29	123 المستا	46	12(3)	41	E123	16 (2)
	Parmelia sulcata	4806			123		123		123	
	Parmeliella corallinoides	4902			123		123		123	
	Parmeliella tryptophylla	4904			123		123		123	
	Parmelinopsis horrescens	5101			123		123		123	
1-	Parmelinopsis minarum	5102	الإ	67 0	<b>ジ123</b>	312	1(2)3	5	12.(3)	52 @
	Parmelinopsis spumosa	5104			123		123		123	
	Parmeliopsis hyperopta	5202		ļ	123		123		123	
	Parmotrema arnoidii	5301			123		123		123	
	Parmotrema austrosinese	5302			123		123		123	
	Parmotrema crinitum	5305			123		123		123	
	Parmotrema eurysacum	5310			123		123		123	
	Parmotrema of gardneri	5328			123		123		123	27/2 / (1) 19/2
13		5314	4	7:3	12.(3)	47	1.(2).3	15		370 6 (F) 11(3) 54 (F) 55 (F) 4
	Parmotrema margaritatum	5318			123		123		123	370/3/3/
	Parmotrema mellissii	5319			123		123		123	
	Parmotrema michauxianum	5320			123	.10	123		123	
1/	Parmotrema perforatum	5323		194	1.233	48	1223		123	
السا	Parmotrema perlata	5303		<u> </u>	123		123		123	
	Parmotr. praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
	Parmotrema subsumptum				123		123		123	
لـــا	Parmotrema tinctorum	5333			123		123		123	
	Parmotrema ultralucens	5334		<b> </b>	123		123		123	
_]	Parmotrema xanthinum	5335			123		123		123	
_]	Phaeophyscia adiastola	5601			123		123		123	
[]	Phaeophyscia ciliata	5603		ļ	123		123		123	
	Phaeophys, erythrocardia	5604			123		123		123	
	Phaeophyscia pusilloides	5613			123		123		123	
15	Phaeophyscia rubropulchra	5614	Ã	<b>A</b>	123		1(2).3		123	
ئستس										

JAFOS PLOT & 6-15-94

		Data to	enter				T	1		
	Species name	Sp. code	Abund	Bag #	A	Bag #	A	Bag #		Comments
-	Physcia aipolia	5702	1		123	Day 7	123	Jay #		Connents
1	Physcia appolia Physcia americana	5704	<del>  ,                                   </del>	44	1,2,3	39	1.62.3	62	123 (D.23	
14	Physcia crispa	37.04	<u> </u>		123	- <b>Y</b> /	123	62	123	
11	Physica millegrana	5716	3.	16	1.(2).3	57	1 (2)3		123	
12	Physica neogaea	5718	7	69	1.2/3	¥	1 (2) 3		123	
//	Physcia stellaris	5723	T		123		1.2.3	<b></b>	123	
	Physciella chloantha				123		123		123	<u> </u>
	Physconia detersa	5901			123		123		123	
	Platismatia tuckermannii	6106	1		123	<del> </del>	123		123	
	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123	<del></del>	123		123	
	Psudocyphellaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			123		123		123	
	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			123		123		123	
19	Punctelia rudecta	6707	4	67	123	41 (	9123	40	12(3)	
	Punctelia semansiana	6708			123		123		123	170 560
تع	Punctelia subrudecta	6711	لق	14	1/2.3	7	23 اعت	54	<b>€</b> 1.2.3	
	Pyxine caesiopruinosa	6803			123		123		123	
21	Pyxine sorediata	6808	-3	38	1/2/3	2.	12(3)	53	C123	34(3) 34(3)
	Ramalina americana	6901			123		123		123	ļ
	Ramalina stenospora	6932			123		123		123	
	Ramalina willeyi	6940			123		123		123	
22	Rimelia cetrata	7101	Ĵ	104	12(3)		123		123	mele
	Rimelia diffractaica	7103			123		123		123	
	Rimelia reticulata	7104			123		123		123	
	Rimelia simulans	7105			123		123		123	
	Rimelia subisidiosa	7106			12.,3		123		123	ł
	Sticta weigelli	7506			123		123		123	
	Usnea aciculifera	8001			123		123		123	
2	Usnea ceratina	8014	_2	57	1.(2).3	···	123		123	
24	Usnea cornuta	8019	4	42	1.62.3	***	123		123	rc
	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040			123		123		123	
	Usnea madeirensis	8047			123		123		123	
25	Usnea mutabilis	8050	J	58	12(3)	<i>ઝ</i> /	12.(3)		123	
	Usnea occidentalis	8054			123		123		123	
	Usnea rubicunda	8063	<u>.,,                                   </u>	JD.	12.3	60	1.22).3	22	12.(3)	25 (2) 26 (2) 27 2
	Usnea strigosa	8069			123		123		123	56(2) 55(0) 4
	Usnea subfloridana	8072			123		123		123	
	Usnea subscabrosa	8076			123		123		123	
<u> </u>	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020			123		123	<del> </del>	123	
42	Conopunda				123		123		123	
	croplains	203	3	41	12(3)	<u> </u>	12.3		123	
				,	123		123		123	
					123		123		123	
					123		123		123	
<b>  </b>					123		123		123	emismulae entravelude
	Cladonia squamules only				123		123		123	squamules only-exclude
	Crustose lichen				123		123		123	crustose forms-exclude
	bryophyte				123		123		123	bryophyte-exclude
		<b></b>			123		123		123	
					123		123		123	
					123		123		123	
_										
1		e landata esta deservada personale		Santano del del companyo de como de						

Plot hex number:

State: VA. County: Beofold

S. Powers

Date: 125 Crew Member's Name: R. M. WARTEN number:

A copy of this sheet will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY.

Record the time lichen sampling began: 9:00

Record the time lichen sampling ended: 10:45

Total time spent sampling the plot: 1:45

NO New in 15 m. C.

Comments about the plot, the lichens, the vegetation, and/or the weather:

STORM with Heaven Rain Night Betone

C. OAK HORK Hickory & Gan Mary Lichens Dead or Jamased.

REMEMBER:

Record the abundance c Remember to look for t Try to put only one spe Lichens of James River Face Wilderness Area

VIRGINIA. BEDFORD CO.:

James River FWA Plot No. 4

Elevation 1,020 ft

Appalachian Trail (No.1) on ridge above the James River approximately 1.1 mi SE of Matts Creek Shelter. Site is approx. 6.7 mi E/SE of Glenwood Ranger Station.

Collected by Ken Hickman & Susan Powers June 25, 1994

No. 4-

Identified by Jonathan P. Day Herbarium of Jefferson National Forest, Virginia

### Lichen Identification Data Sheet Jefferson National Forest --1994

James River Face Wilderness Area Plot. No. \_\_\_

Date:

6-30-94

ite: Virginia anty: <u>Rockbred Co</u> Collector &

J. Dey

	1	Data to	enter							
	Soecies name	Sp. code	Abund.	Bag #	A	Bag #	A	Bag #	A	Comments
<del></del>	Anaptychia palmulata	301	-7	2.0	12.5		12.,3		123	
-	Anzia copodes	402			123		123		123	
<u> </u>	Bryoria bicolor	602	•		123		123		123	
	Bryona furcellata	609			123		123		123	
2	Candelaria concolor	8301	3	15	1,2,3	18	12(3)		123	
-	Candelaria fibrosa	8302			123		123		123	
-	Canoparmelia caroliniana	802			123		123		123	
-	Cetraria americana				123		123		123 123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria . fendleri	1008		<del></del>	123		123		123	
7	Cetraria . oakesiana	1012		12	12 <i>.</i> 3)		123		123	
	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101	<u> </u>		123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104	<b></b>		123		123		123	
	Cladonia bacillaris	1203 1207		<u> </u>	123		123		123	
	Cladonia caespiticia	1210			123		123		123	
	Cladonia chlorophaea s.i.	1211			123		123		123	
L	Cladonia coniocraea	1212			12.3		123		123	
	Cladonia cristatella	1214			123		123		123	
	Cladonia cylindrica	1243			123		123		123	
ļ	Cladonia didyma	1270			123		123		123	
	Cladonia floerkeana Cladonia macilenta	1225			123		123		123	
ļ	Cladonia mateocyatha	1245	<u> </u>		123		123		123	
4	Cladonia ochrochlora	1228			123		123		123	
	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
	Cladonia ramulosa(pityrea)	1234			123		123		123	
	Cladonia ravenelii				123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123 123	
	Cladonia subradiata				123		123		123	
	Cladonia vulcanica				123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Coccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum .		<u></u>		123		123		123	
	Collema nigrescens	1412			123		123		123	
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501			123		123		123	
7	Flavoparmelia caperata	2601	لزد	<b></b>	12. <u>(3)</u> 123		123		123	
,	Flavopunctelia flaventior	2702			123		123		123	
	Heteroderm. appalachensis	2802			123		123		123	
	Heterodermia casarettiana	2804			123		123		123	
	Heterodermia crocea	2806			123		123		123	
	Heterodermia granulifera	2812			123		123		123	
	Heterodermia hypoleuca	2813			123		123		123	
	Heterodermia leucomelos	2814	<b> </b>		123		123		123	
	Heterodermia microphylla	2016	<b> </b>	}	123		123		123	
	Heterodermia obscurata	2816	<u> </u>	<u> </u>	123		123		123	
	Heterodermia speciosa	2822	<b> </b>		123		123		123	
	Heterodermia squamulosa	2823	<b></b>		123		123		123	
	Hyperphyscia addutinata	2901	<b> </b>		123		123		123	
	Hyperphysica syncolla	2110	<b> </b>	<b> </b>	123		123		123	
	Hypogymnia krogiae	3110		<b> </b>	123	-	123		123	
,	Hypogymnia physodes	3116	<u> L</u>	<u>Legislando de la composición dela composición de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición de la u>				أوال والمجمودية والمناسبين والمناسبين		

SRFW 111 # 5 6-70-1994

	<u></u>		0000							
		Data to	Abund.	Bag #		Bag #	Α	82g #	A	Comments
<u>i</u>	Species name	Sp. code	ADUSTA	Day #	123		123		123	
1	Hypotrac. croceopustulata	3201			123		123		123	
	Hypotrac gondylophora	3205			1,,2,,3		123		123	
	Hypotrachyna livida	3208			123		123		123	
	Hypotrachyna novella	3210			123		123		123	
	Hypotrachyna osseoalba	3215			123		123		123	· · · · · · · · · · · · · · · · · · ·
	Hyptrachyna pustulifera	3215			123		123		123	<u> </u>
	Hypotrachyna revoluta	3218			123		123		123	
	Hypotrachyna showmanii	3220			123		123		123	
	Hypotrachyna thysanota	3301			123		123		123	
	imshaugia aleurites	3302			123		123		123	
1	imshaugia placorodia	3302			123		123		123	
	Lept_austroamericana	3609			123		123		123	
	Leptogium corticola	3611			123		123		123	
	Leptogium cyanescens	3624			123		123		123	
-	Leptogium laceroides				123		123		123	
-	Leptogium teretiusculum	3905			123		123		123	
1-1	Lobaria pulmonaria Lobaria quercizans	3906			123		123		123	
1	Lobaria ravenelii				123		123		123	
<b>├</b> ─┩	Melanelia halei	4008			123		123	<u> </u>	123	
<b></b>	Melanelia subaurifera	4015			123		123	<u> </u>	123	
-	Menegazzia terebrata	4101			123		123		123	
	Myelochroa aurulenta	4201	نو	22	12(3)		123		123	
2	Melochroa galbina	4202			123		123		123	
-	Myelochroa metarevoluta	4203			12_3		123		123	
-	Nephroma helveticum	4403			123		123		1,.23	
-	Pannaria leucophaea	4703			123		123		123	
-	Pannaria leucosticta	4704			123		123	<u> </u>	123	
	Pannaria rubiginosa	4711			123		123	<u> </u>	123	
	Pannaria tavaresii	4713			123	<u> </u>	123	<u> </u>	123	
-	Parmelia squarrosa	4805	<b>4</b>	9	12(.3)	<u> </u>	123	<u> </u>		
4	Parmelia sulcata	4806			123		123	<u> </u>	123	
-	Parmeliella corallinoides	4902			123		123	<u> </u>	123	
	Parmeliella tryptophylla	4904			123		123		123	
	Parmelinopsis horrescens	5101			123		123		123	
	Parmelinopsis minarum	5102			123		123		123	
	Parmelinopsis spumosa	5104			123	<u></u>	123	1	123	
	Parmeliopsis hyperopta	5202			123		123		123	
	Parmotrema arnoldii	5301			123	<u> </u>	123		123	
	Parmotrema austrosinese	5302		<u> </u>	123	<u> </u>	123		123	
	Parmotrema crinitum	5305		<b></b>	123	ļ	123		123	
	Parmotrema eurysacum	5310			123		123	<del> </del>	123	
	Parmotrema of gardneri	5328			123	<b> </b>			123	
	Parmotrema hypotropum	5314	<u></u>	<b></b>	123	1	123	<del>                                     </del>	123	
7	Parmotrema margaritatum	5318	نون		12.(3)	2/_	123	<del>                                     </del>	123	
4	Parmotrema mellissii	5319		<b>]</b>	123	<u> </u>	123	<del>                                     </del>	123	
	Parmotrema michauxianum	5320		<b></b>	123	<del> </del>	123	<del>                                     </del>	123	
-	Parmotrema perforatum	5323		<b> </b>	123		123	<del> </del>	1.,23	
	Parmotrema perlata	5303	<u> </u>	<b> </b>	123	<del> </del>	123	<del>                                     </del>	123	
	Parmotr. praesorediosum	5324		<b> </b>	123		123	<del>                                     </del>	123	
	Parmotrema rampoddense	5326		<u> </u>	123	<del> </del>	123	<del> </del>	123	
	Parmotrema rigidum	5327		<b>j</b>	123	<del> </del>	123	†	123	
	Parmotrema stuppeum	5329			123	<del> </del>	1,.23	<del>                                     </del>	123	
	Parmotrema subtinctorum	5331		<b> </b>	123	<del> </del>	123	<del>                                     </del>	123	
	Parmotrema subsumptum	<u> </u>	ļ	<b> </b>	123	<u> </u>	123		123	
	Parmotrema tinctorum	5333	<u> </u>	<u> </u>	123	<del> </del>	123	<del>                                     </del>	123	
	Parmotrema ultralucens	5334		1	123	<del> </del>	123	<del> </del>	123	
	Parmotrema xanthinum	5335		<b> </b>	123	<del> </del>	123	<b>†</b>	123	
-	Phaeophyscia adiastola	5601	<u> </u>	<b>}</b>	123	<del> </del>	123	1	123	
}	Phaeophyscia ciliata	5603		<u> </u>	123	<del> </del>	123	1	123	
	Phaeophys, erythrocardia	5604	<u> </u>	<u> </u>	123	<del> </del>	123	1	123	
	Phaeophyscia pusilloides	5613	+3-	<b></b>	123		123		1.2.3	
	Phaeophysia rubropulchra	5614								

VRFW PLOT # 5 670-1994

	Data to	Abund.	Bag #	Α	Bag #	Α	8ag #	Α	Comments
Species name	Sp. code	ADURICL	34y #	123		123		123	
Physcia aipolia	5702			1.2.3		123		123	
Physcia americana	5704		<b></b>	123		123		123	
Physcia crispa		J	ہو	12.(3)	6	1,2,3	8	123	100 17(2) La(
Physcia millegrana	5716		->F	123		123		123	
Physica neogaea	5718	- 3	<del>  7</del>	12.3	/υ	1.(2).3	17	12.(3)	
Physcia stellaris	5723		}	123		123		123	
Physciella chloantha	ļ			123		123		123	
Physconia detersa	5901			123		123		123	
Platismatia tuckermannii	6106		<b></b>	123		123		123	
Pseudevernia ctadonia	6301			123		123		123	
Pseudevernia consocians	6302		<b></b>	123		123		123	
Psudocyphellaria aurata	2404			123		123		123	
Psudocyphellaria crocata	6404	.3	2	1.2(3)	5	12(3)	16	12.3	
Punctelia appalachensis	6701	-3		123	<del>                                     </del>	123		123	
Punctelia bolliana	6702		<u> </u>	123		123		123	
Punctelia missouriensis	6705	3	7	12(3)	19	12(3)		123	
Punctelia ru <b>decta</b>	6707	1-3		123	<del>                                     </del>	123		123	
Punctelia semansiana	6708		<del> </del>	123		123	Ī	123	
Punctelia subrudecta	6711		<b> </b>			123		123	
Pyxine caesiopruinosa	6803	<u> </u>	<b></b>	123		123		123	
Pyxine sorediata	6808		<u> </u>			123		123	
Ramalina americana	6901			123		123	<del> </del>	1.2.3	
Ramalina stenospora	6932			123		123		123	
Ramalina willeyi	6940			123		123	<u> </u>	123	
Rimelia cetrata	7101			123	<u> </u>		<u> </u>	123	
Rimelia diffractaica	7103		<u> </u>	123		123		123	
Rimelia reticulata	7104		<u> </u>	123		123	<del> </del>	123	
Rimelia simulans	7105		<u> </u>	123		123	<u> </u>	123	
Rimella subisidiosa	7106			123		123	<del> </del>	123	
Sticta weigelli	7506			123		123	<del> </del>	123	
Usnea adculifera	8001		<u> </u>	123		123	<del> </del>	1_23	
Usnez ceratina	8014			123		123	<del> </del> -	123	
Usnea cornuta	8019			123		123		123	
Usnea dasaea	8020		<u> </u>	123		123	<del> </del>	123	
Usnea hesperina	8040			123		123		123	
Usnea madeirensis	8047			123		123		123	
Usnea mutabilis	8050			123		123	<del> </del>		
Usnea occidentalis	8054			123		123	<u> </u>	123	<u> </u>
Usnea rubicunda	8063			123	<u> </u>	123	<u> </u>		
	8069			123	<u> </u>	123		123	
Usnea strigosa Usnea subfloridana	8072	1		123	<u> </u>	123	<del> </del>	123	
Usnea subscabrosa	8076	T .		123	<u> </u>	123	<del> </del>	123	
Vanthoria candelaria	8201		1	123	<u></u>	123	<b></b>	123	
	1020	1	1	123	<u></u>	123	<u> </u>	123	
Vulpicida viridis	† ···		1	123		123	<u> </u>	123	
	1	T	1	123		123		123	
		<b>†</b>	1	123		123	<u> </u>	123	
		<b>1</b>	1	123		123	<u> </u>	123	
	1		1	123		123	<u> </u>	123	
	1	1		123		123	<u> </u>	123	squamules only-exclud
	-	1		123		123	<u> </u>	123	crustose forms-exclud
Cladonia squamules only	1	<del>                                     </del>	1	1.2.3		123	<b></b>	123	bryophyte-exclude
Crustose lichen	<del> </del>	<del> </del>	1	123		123	<u> </u>	123	DIYODIIYU EXCIOUE
bryophyte	<del> </del>	<del> </del>	14	12(3)	1	123	<u> </u>	123	Receive
recty	1	+	<del>                                     </del>	123		123		123	
	1	+	<b>†</b>	123		123		123	
1	<u> </u>	<del> </del>	<del></del>	<del>                                     </del>	1	T	l	1	

	Start 10 am	
Lichen CommunitiesPL	OT PACKING SLIP	FHM, 1994
Plot hex number: 5	State: VA County: Roof	sbridge_
Date: 620-94Crew Men	nber's Name: Steve Crew of Nut'l, Forest-Glenwood Dill be part of the permanent re	number: 1
plot. PLEASE COMP	GETETT FULLT.	ecord for this
Record the time lichen	sampling began:   Oam sampling ended:   :/5 am ing the plot   M. 15 min	
Comments about the pl	lot, the lichens, the vegetation	i, and/or the
not much trations	heavy herbaceous layer	shagbark hickory
REMEMBER!	ound w/in last 15 min	nmockement hickory lut. ash red bak
REMEMBER.  Record the abu	r Lichens of Jan	nes River

ember to lo to put only

Collected by Ken Hickman & Susan Powers June 30, 1994

VIRGINIA. ROCKBRIDGE CO.:

James River FWA Plot No. 5

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

Face Wilderness Area

Highcock Knob summit on Appalachian Trail (No.1) north of the Blue Ridge Parkway. Hardwood forest. Site is approx. 5.7 mi S/SE of Glenwood Ranger Station.

Elevation 3,073 ft

## Lichen Identification Data Sheet Jefferson National Forest --1994

Date:

Collector

uunty:

J. Dey Lichen Specialist

		Data to	enter	Bag #	A	Bag #	A	8ag #	A	Comments
	Species name	Sp. code	Abund	549 #		Dug "	123		123	
	Anaptychia palmulata	301			123		123		123	
	Anzia copodes	402			123		123		123	
	Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		12_3	
	Cetraria . fendleri	1008			123		123		123	
	Cetraria , oakesiana	1012			123		123		123	
	Cetraria orbata	1013		<b>!</b>	123		123		1.,2.,3	
	Cetrelia cetrarioides s.l.	1101		<del> </del>	123		123		12,.3	
	Cetrelia chicitae	1102		<b> </b>	123		123		123	
	Cetrelia olivetorum	1104		<b>}</b> -	123		123		123	
	Cladonia bacillaris	1203			123		123	·	123	
	Cladonia caespiticia	1207			123		123		123	
	Cladonia chiorophaea s.i.	1210			123		123		123	
	Cladonia coniocraea	1211		<u> </u>	123		123		123	
	Cladonia cristatella				123		123		123	
	Cladonia cylindrica	1214 1243			123		123		123	
	Cladonia didyma	1243			123		123		123	
	Cladonia floerkeana	1225			123		123		123	
	Cladonia macilenta	1245			123		123	<u> </u>	123	
4	Cladonia mateocyatha	1228			123		123		123	
	Cladonia ochrochlora	1229			123		123	<u></u>	123	
	Cladonia parasitica	1242		1	123		123		123	
	Cladonia peziziformis		<u> </u>	1	123		123		123	
	Cladonia ramulosa(pityrea)				123		123	<u> </u>	123	
ļ	Cladonia ravenelii	1246			123		123	<u> </u>	123	
	Cladonia simulata	1236			123		123		123	
	Cladonia squamosa	1522			123		123	<u> </u>	123	
	Cladonia subradiata	<u> </u>	<del>                                     </del>	1	123		123	<u> </u>	123	
	Cladonia vulcanica	1303		1	123		123		123	
	Coccocarpia erthroxyli	1304			123		123	<u> </u>	123	
	Coccocarpia palmicola		1		123		123		123	
	Collema congiomeratum .	1412			123		123	<u> </u>	123	
	Collema nigrescens	1415			123		123		123	
	Collema subflaccidum  Everniastrum catawbiense	2501			123		123	<u> </u>	123	
	Everniasuum cataworense	2601	لی	B	12(3)	70 A		<u> </u>		
	Flavoparmelia caperata Flavopunctelia flaventior	2702	L'S	3	1243	17	12.(3)	24 7	123	
<u></u>	Heteroderm, appaiachensis	-			123		123			
	Heterodermia casarettiana	4		1	123		123	<u> </u>	123	
		2806			123		123	<u> </u>	123	
	Heterodermia crocea Heterodermia granulifera	2812		l	123		123	<u> </u>	123	
	Heterodermia hypoleuca	2813			123		1.,2.,3	<u> </u>	123	
	Heterodermia leucomelos	2814			123		123	<del> </del>	123	
	Heterodermia microphylia	1 - · · ·		1	123		123	<del> </del>	123	
<del>_,</del>	Heterodermia microphysa Heterodermia obscurata	2816	3	9	12(3)		123	<del> </del>	123	
₹_	Heterodermia obscurata Heterodermia speciosa	2822			123	<u> </u>	123	<del> </del>	123	
	Heterodermia speciosa Heterodermia squamulosa	2823	T	Ĭ	123		123	<del></del>	123	
立	Hyperphyscia addiutinata	2901	2	7_	12(3)		123	<del> </del>	123	
T	Hyperphyscia syncolia	1			123		123		123	
	Hypogymnia krogiae	3110			123		123	<del> </del>	123	
·	Hypogymnia krograe  Hypogymnia physodes	3116	1	1	123		123	فسيسيسيان	1	
_	нуродупина риузосез		فبيس بين فلند بيساني والأم	التنج تنتقد جياي والنجي						•

JRFCU PLAT #6 6-30-1994

SRIFEL			( -Jo - /5	7 7 7 7					
	Data to		Bag #	A	82g #	A	8ag #	Α	Comments
Species name	Sp. code	Abund.	D&G #	123		123		123	
Hypotrac, croceopustulat	3201	<u> </u>		123		123		123	
Hypotrac. gondylophora	3205			123		123		123	
Hypotrachyna livida	3208			123		123		123	
Hypotrachyna novella	3210	<del> </del>		123		123		123	
Hypotrachyna osseoaiba	3215	<u> </u>		123		123		123	
Hyptrachyna pustulifera	3216	<u> </u>		123		123		123	
Hypotrachyna revoluta Hypotrachyna showmanii		<u> </u>		123		123		123	
Hypotrachyna thysanota	3220			123		123		123	
Imshaugia aleurites	3301			123		123		123	
Imshaugia placorodia	3302			123		123		123	
Lept austroamericana				123		123		123	
Leptogium corticola	3609	<u> </u>		123		123		123	
Leptogium cyanescens	3611	<u> </u>	<b></b>	123		123		123	
Leptogium laceroides	3624	<u> </u>		123		123		123	
Leptogium teretiusculum		ļ	<u> </u>	123		123		123	
Lobaria pulmonaria	3905			123		123		123	
Lobaria quercizans	3906		<b>]</b>	123		123		123	
Lobaria ravenelii		<u> </u>		123		123		123	
Melanelia halei	4008	<del> </del>	<b>†</b>	123		123		123	
Melanelia subaurifera	4015	<del>                                     </del>	<b>1</b>	123		123		123	
Menegazzia terebrata	4101	1.,	<del>                                     </del>	12.(3)	6	12(3)	27	12(3)	of surrester
5 Myelochroa aurulenta	4201	لام	<del>                                     </del>	123		123		123	
Melochroa galbina	4202	-		12.3		123		123	
Myelochroa metarevolut	4203 4403	<del>                                     </del>		123		123		123	
Nephroma helveticum	4703			123		123		123	
Pannaria leucophaea	4704	<b>†</b>	1	123		123		123	
Pannaria leucosticta	4711	<del>                                     </del>	1	123		123		123	
Pannaria rubiginosa	4713		1	123		123	<u> </u>	123	
Pannaria tavaresii	4805	1 7	15	12.(3)		123		123	
6 Parmelia squarrosa Parmelia sulcata	4806			123		123	<u> </u>	123	
Parmelia suicaca Parmeliella corallinoides				123		123	<u> </u>	123	
Parmeliella tryptophylla				123		123		123	
Parmelinopsis horrescer	s 5101			123	<u> </u>	123		123	
Parmelinopsis minarum	5102			123		123		123	
Parmelinopsis spumosa	5104			123	<u> </u>	123	<u> </u>	123	
Parmeliopsis hyperopta	5202		<u> </u>	123		123		123	
Parmotrema arnoldii	5301		<u> </u>	123		123		123	
Parmotrema austrosine	e 5302		<u> </u>	123	<u> </u>	123		123	
Parmotrema crinitum	5305		<b>_</b>	123	<u> </u>	123		123	
Parmotrema eurysacum	. 5310		<b></b>	123	<u> </u>	123		123	
Parmotrema of gardner	5328		<del> </del>	123	<del> </del>	123		123	
Parmotrema hypotropun	5314	<b></b>	1	123	<del></del>	123		123	
Parmotrema margaritat	ım 5318	<b>-</b>	<del>-  </del>	123	<del>                                     </del>	123		123	
Parmotrema mellissii	5319		J	123		123		123	
Parmotrema michauxian	um 5320	-	+	123		123		123	
Parmotrema perforatun	5323		1	123		123		123	
Parmotrema perlata	5303 n 5324	-	<b></b>	123	T	123	<u> </u>	123	
Parmotr. praesorediosu		+	1	123		123		123	
Parmotrema rampodden	se 5326 5327		1	123		123	<u> </u>	123	
Parmotrema rigidum	5329	1	<u> </u>	123		123	<b></b>	123	
Parmotrema stuppeum			1	123		123	<b></b>	123	
Parmotrema subtinctor		<del></del>		123		123	<b> </b>	123	
Parmotrema subsumptu	5333		1	123		123	<u> </u>	123	
Parmotrema tinctorum				123	<u> </u>	123	<del> </del>	123	
Parmotrema uitralucens	5335	1		123	<u> </u>	123	<del></del>	123	
Parmotrema xanthinum Phaeophyscia adiastola	5601			123	<u> </u>	123	<del> </del>	123	
Phaeophyscia ciliata	5603			123	<u> </u>	123	<del> </del>	123	
Phaeophys. erythrocard				123	<u> </u>	123	<del> </del>	123	
7 Phaeophyscia pusilloide		4		1(.2),3	<u> </u>	123	128	1.2.3	
7 Phaeophyscia rubropulo		1.3	1	12.(3)	/0	@ D23			
/ Prilacophyson records									

URFW 125T # 6 6-3-- 1994

	Ti Ti Ti Ti Ti Ti Ti Ti Ti Ti Ti Ti Ti T	Data to	enter	Ĭ ·				_	T	
-	Species name	Sp. code	Abund	Bag #	A	8ag #	<b> </b>	Bag #	A	Comments
<del></del>	Physcia aipolia	5702			123		123		123	The second secon
4	Physcia americana	5704	7	7	123		123	1	123	
	Physcia crispa	H	]		123		123		123	
1-	Physica millegrana	5716	ور	上	12(3)	7	E)23	10	12./3	
11	Physcia neogaea	5718	<del>ل</del> ى	24	12(3)		123		123	
14	Physcia stellaris	5723	کی ا	12 13	12.3		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901	<u> </u>	<b></b>	123		123		123	
	Platismatia tuckermannii	6106	<u> </u>	<b></b>	123		123		123	
<u></u>	Pseudevernia ctadonia	6301			123		123		123	
<u> </u>	Pseudevernia consocians	6302			123		123		123	
-	Psudocyphellaria aurata				123		123		123	
<b> </b>	Psudocyphellaria crocata	6404	1		123		123		123	
13	Punctelia appalachensis	6701	<u></u>	15	12(3)		123		123	
1	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			123		123		123	
14	Q	6707	نخ		12.(3)		123		123	7
-	Punctelia semansiana	6708			123		123		123	
<b> </b>	Punctelia subrudecta	6711			123		123		123	
	Pyxine caesiopruinosa	6803 6808	<b>→</b>		123 123	26	12.(3)		123	
13	Pyxine sorediata			2.5						
<u></u>	Ramalina americana	6901			123		123		123	
	Ramalina stenospora	6932			123		123		123	
-	Ramalina willeyi	6940	(		123		123		123	
	Rimelia cetrata	7101			123		123			
1	Rimelia diffractaica	7103	<del>,</del>		123		123		123	1
15	Rimelia reticulata	7104 7105	<u> </u>	2.5	123	<del> </del>	123		123	
	Rimelia simulans Rimelia subisidiosa	7106			123		123		123	
1	Sticta weigelii	7506			123		123		123	
-1	Usnez aciculifera	8001			123		123	<del></del>	123	
-1	Usnea ceratina	8014			123		123		123	
-	Usnea cornuta	8019			123		1.2.3		123	
	Usnea dasaea	8020			123	<u>-</u>	123		123	
	Usnea hesperina	8040			123		123		123	
	Usnea madeirensis	8047			123		123		123	
	Usnea mutabilis	8050			123		123		123	
	Usnea occidentalis	8054	- 1		123		123		123	
1	Usnea rubicunda	8063			123		123		123	f
	Usnea strigosa	8069			123		123		123	
	Usnea subfloridana	8072			123		123		1.,2.,3	
	Usnea subscabrosa	8076	. 1		123		123		123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020			123		123		123	
	Olymin soulose	5722	?	2.1_	12(3)		123		123	
					123		123		123	
					123		123		123	
					123		123		12,.3	
					123		123		123	
					123		123		123	
	Cladonia squamules only				123		123		123	squamules only-exclude
	Crustose lichen				123		123		123	crustose forms-exclude
	pryophyte				123		123		123	bryophyte-exclude
				j	123		123		123	
1					123		123		123	
					123		123		12.,3	
				1			Ţ	1		
1										

28

Lichen CommunitiesPLOT PACKING SLIP FHM, 1994
Plot hex number: 6 State: VA County: Rock by id se  Nug Jeff: Natt. ForGenwood Date: 6 20-9 Crew Member's Name: Steve Crew number:
A copy of this sheet will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY.
Record the time lichen sampling began: 12:30 pm  Record the time lichen sampling ended: 1.45 pm Storm Late  Total time spent sampling the plot: 1.15  As New App Journa in Last 15 min  Comments about the plot, the lichens, the vegetation, and/or the weather:  Downer weather trees we parke lichen  Learny Sevenceous layer
Lichens of James River Face Wilderness Area  VIRGINIA. ROCKBRIDGE CO.:  James River FWA Plot No. 6 Elevation 2,560 ft  Appalachian Trail (No.1), 0.35 mi E/NE of Petites Gap and 0.7 mi W/SW of Highcock Knob, north of the Blue Ridge Parkway. Hardwood forest. Site is approx. 5.5 mi S/SE of Glenwood Ranger Station.  Collected by Ken Hickman & Susan Powers June 30, 1994 No. 6-
Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

## Lichen Identification Data Sheet Jefferson National Forest -- 1994

ames	River Face Wilderness	Area	Plot.	No.	
ite:	Virginia				

Date: Collector

Lichen Specialist

J. Dey

T		Data to	enter					8 4	<del>                                     </del>	Comments
	Species name	Sp. code	Abund	Bag #	A	8ag #	A	Bag #	A	Continents
7	Anaptychia pałmulata	301	لق	9	12.(3)	15	(1)2(3)		123	
	Anzia copodes	402			123		123		123	
-	Bryoria bicolor	602			123		123		123	
╣	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			1.,2.,3		123		123	
	Canoparmelia caroliniana	802			123		123		123	
-#		<u> </u>			1.,2.,3		123		123	
-	Cetraria americana	1006			123		123		123	
4	Cetraria ciliaris	1008			123		123		12_3	
-	Cetraria , fendleri	1012	3	7	1.22.3	12	1(2)3	2.2	12(3)	
_	Cetraria , oakesiana	1013			123		123		123	
4	Cetraria orbata	1101		1	123		123		123	
_	Cetrelia cetrarioides s.l.	1102		1	123		123		123	
4	Cetrelia chicitae	1104		<b> </b>	123		123		123	
_[	Cetrelia olivetorum			<b> </b>	123		123		123	
_	Cladonia bacillaris	1203	4	26	1(2).3		123		123	·····
	Cladonia caespiticia	1207		<del> </del>	123		123		123	
ı	Cladonia chiorophaea s.i.	1210		<u> </u>	123		123		123	
	Cladonia coniocraea	1211		75	12.(3)		123		123	
	Cladonia cristatella	1212	J		123		123		123	
	Cladonia cylindrica	1214		<u> </u>			123		123	
	Cladonia didyma	1243		<u> </u>	123		123		123	
1	Cladonia floerkeana			<u> </u>	123		123		123	
٦	Cladonia macilenta	1225		<u> </u>	123		123	<u> </u>	123	
1	Cladonia mateocyatha	1245		<u> </u>	123		123		123	
1	Cladonia ochrochlora	1228		<u> </u>	123				123	
-	Cladonia parasitica	1229		<u> </u>	123		123	<u> </u>	123	
-	Cladonia peziziformis	1242		I	123		123		123	
-	Cladonia ramulosa(pityrea)	1234			123		1,.2,.3	<u> </u>		
-	Cladonia ravenelii				123		123		123	
[	Cladonia simulata	1246			123		123		123	
-1		1236			123		123		123	
4	Cladonia squamosa			1	123		123		123	
_	Cladonia subradiata				123		123		123	
_	Cladonia vulcanica	1303	<del> </del>	1	123		123	<u> </u>	123	
4	Coccocarpia erthroxyli	X	<del></del>	1	123		123		123	
_	Coccocarpia palmicola	1304	<del> </del>	1	123		123		123	
	Collema conglomeratum .			<del> </del>	123	<u> </u>	123		123	
	Collema nigrescens	1412	<del> </del>	<b></b>	123		123		123	
	Collema subflaccidum	1415	<u> </u>	<b>1</b>	123		123		123	
	Everniastrum catawbiense	2501	<del>                                     </del>	1	12(3)	12	12(3)		123	
	Flavoparmelia caperata	2601	34	<u></u>	123		123	ĺ	123	
٦	Flavopunctelia flaventior	2702		<b>}</b>			123		123	
	Heteroderm, appalachensis	2802		<b></b>	123		123		123	
7	Heterodermia casarettiana	2804		<b>}</b>	123		123		123	
-	Heterodermia crocea	2806	<u> </u>	<b>4</b>	123	<b></b>	123	<u> </u>	123	
-	Heterodermia granulifera	2812			123			<del> </del>	123	
-	Heterodermia hypoleuca	2813	<u> </u>		123	<u></u>	123	<del> </del>	123	
-	Heterodermia leucomelos	2814		<u> </u>	123		123	<del></del>	123	
4	Heterodermia microphylla				123		123	<b></b>	123	<u> </u>
إح	Heterodermia obscurata	2816	1-4	10	1(2)3		123	<del> </del>		
4	Helerodennie oracinada	2822	Ť	1	123		123	<del> </del>	123	
_	Heterodermia speciosa	2823			123	<u> </u>	123	<u> </u>	123	
_	Heterodermia squamulosa	2901	<u> </u>	1	123		123		123	
_	Hyperphyscia adglutinata		<del>                                     </del>	1	123		123		123	
	Hyperphyscia syncolia Hypogymnia krogiae	3110	<del>                                     </del>	1	123		123	<u> </u>	123	
-						4				

JRFW PLAT # 7-1-199+

				H	Γ'''''	£ .		i	1	Į.
		Data to	enter	Bag #	A	8ag #	A	Bag #	A	Comments
	Species name	Sp. code	Abund.	049 #	123		123		123	
	Hypotrac, croceopustulata	3201			123		123		123	
<u> </u>	Hypotrac, gondylophora	3205		<b> </b>	123		123		123	
<u> </u>	Hypotrachyna livida	3208		1	123		123		123	
	Hypotrachyna novella	3210			123		123		123	
-	Hypotrachyna osseoaiba	3215			123		123		123	
1	Hyptrachyna pustulifera	3216			123		123		123	
-	Hypotrachyna revoluta Hypotrachyna showmanii	3218			123		123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	Imshaugia aleurites	3301			123		123		123	
	Imshaugia placorodia	3302			123		123		123	
-	Lept. austroamericana				123		123		123	
-	Leptogium corticola	3609		<b></b>	123		123		123	
	Leptogium cyanescens	3611	<u> </u>		123	<u> </u>	123		123	
	Leptogium laceroides	3624		<b></b>	123		123		123	
	Leptogium teretiusculum				123		123		123	۲/۱۸
7	Lobaria pulmonaria	3905	/	144	12.(3)	<u> </u>	123		123	
8	Lobaria quercizans	3906		16	123		123		123	
	Lobaria ravenelii			<b>}</b>	123		123		123	
	Melanelia halei	4008			123	<u> </u>	123		123	
	Melanelia subaurifera	4015	<del> </del>	<b> </b>	123		123		123	
	Menegazzia terebrata	4101	<del> </del>	<del> </del>	123		123		12,.3	
	Myelochroa aurulenta	4201 4202			123		123		123	
	Melochroa galbina	4202			123		123		123	
	Myelochroa metarevoluta	4403			123		123		123	
<b> </b>	Nephroma helveticum	4703			123		123		123	
-	Pannaria leucophaea Pannaria leucosticta	4704			123		123		123	
	Pannaria rubiginosa	4711			123		123		123	
	Pannaria tavaresii	4713			123		123		123	
	Parmelia squarrosa	4805	<b>ت</b> ل.		12(3)	17	123	<u> </u>	123	
	Parmelia sulcata	4806			123		123		123	
	Parmeliella corallinoides	4902			123		123		123	
	Parmeliella tryptophylla	4904		<u> </u>	123	<u> </u>	123		123	
	Parmelinopsis horrescens	5101		<b> </b>	123		123		123	
	Parmelinopsis minarum	5102		<b></b>	123	<u> </u>	123		123	A
73	Parmelinopsis	510	3	<u> </u>	123	<del>                                     </del>	123	<u> </u>	123	
	Parmeliopsis hyperopta	5202	<u> </u>	-	123		123		123	
	Parmotrema arnoldii	5301	<del> </del>	<b></b>	123		123		123	
	Parmotrema austrosinese	5302	<b></b>	1	123	<u> </u>	123		123	
	Parmotrema crinitum	5305	<u> </u>	<b> </b>	123		123		123	
	Parmotrema eurysacum	5310			123		123		123	
	Parmotrema cf gardneri	5328 5314			123		123		123	
	Parmotrema hypotropum		J	1	12(3)	19	1(2)3		123	
11	Parmotrema margaritatum	5319	<u> </u>		123		123		123	
	Parmotrema mellissii Parmotrema michauxianum		1		123		123	<u> </u>	123	
	Parmotrema perforatum	5323			123		123		123	
	Parmotrema perlata	5303			123		123		123	
	Parmotr. praesorediosum	5324			123		123	<u> </u>	123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123	ļ	123		123	
	Parmotrema stuppeum	5329			123	<u> </u>	123		123	
	Parmotrema subtinctorum	5331		<u> </u>	123		123	<del>                                     </del>	123	
	Parmotrema subsumptum			<b></b>	123		123	<b></b>	123	
	Parmotrema tinctorum	5333		<u> </u>	123	<del> </del>	123		123	
	Parmotrema ultralucens	5334		<b></b>	123	<del> </del>	123		123	
,	Parmotrema xanthinum	5335	<u> </u>	<b> </b>	123		123	<del>                                     </del>	123	
	Phaeophyscia adiastola	5601	<b> </b>	<u> </u>	123		123	<u> </u>	123	
S	Phaeophyscia ciliata	5603		<b>1</b>	123	<del> </del>	123		123	
	Phaeophys. erythrocardia	5604	<del> </del>	<del> </del>	123	<del> </del>	123		123	
	Phaeophyscia pusilloides	5613	3	4	12.(3)		123		123	
7)	Phaeophyscia rubropulchra	5614		1 /	1 12.(3)					

VAFW BLOT # 7 7.1-1994

7		Data to	ANTAL							
		Sp. code	Abund	8ag #	A	Bag #	A	Bag #	A	Comments
_	Species name		, ADDING		123		123	And the second of the second seconds	123	
	Physcia aipolia	5702			123		123		123	
	Physcia americana	5704			123		123		123	
	Physcia crispa	5716	.4	5	12.(3)	7	1.(2).3		123	
11	Physica millegrana	5718			123		123		123	
	Physica neogaea	5723			123		123		123	
	Physcia stellaris	1,23			123		123		123	
	Physciella chloantha	5901			123		123		123	
	Physconia detersa Platismatia tuckermannii	6106			123		123		123	
	Pseudevernia dadonia	6301			123		123		123	
$\mathbf{H}$	Pseudevernia consocians	6302			123		123		123	<u> </u>
	Psudocyphellaria aurata	1			123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	<u> </u>
14	Punctelia appalachensis	6701	j	22-	12.(3)		123		123	
17	Punctelia bolliana	6702			123		123		123	<u> </u>
	Punctelia missouriensis	6705			123		123		123	
15	Punctelia rudecta	6707	ٽي.	17	12.(3)	27	1243		123	
H	Punctelia semansiana	6708			123		123		123	
#-1	Punctelia subrudecta	6711		<u> </u>	123		123		123 123	
-	Pyxine caesiopruinosa	6803			123		123		123	
	Pyxine sorediata	6808			123		123			
	Ramalina americana	6901			123		1.,2.,3		123	
	Ramalina stenospora	6932			123		123		123	
$\vdash$	Ramalina willeyi	6940			123		123		123	
	Rimelia cetrata	7101			123		123		123	
	Rimelia diffractaica	7103			123		123		123	
	Rimelia reticulata	7104			123		123		123	1
	Rimelia simulans	7105		<u></u>	123		123		123	
"——	Rimella subisidiosa	7106			123		123		123	
-	Sticta weigelii	7506			123		123		123	
j	Usnea adoulifera	8001			123	<u> </u>	123		123	
	Usnea ceratina	8014			123	<u> </u>	123		123	
	Usnea cornuta	8019		ļ	123		123		123	t
	Usnea dasaea	8020		<u> </u>	123	<del> </del>	123		123	
	Usnea hesperina	8040		<u></u>	123		123		123	
	Usnea madeirensis	8047		<b></b>	123		123		123	
	Usnea mutabilis	8050		<u> </u>	123		123		123	
	Usnea occidentalis	8054		20	123	2/	(1).23		123	
16	Usnea rubicunda	8063	4	10	①.23	<del></del>	123		123	
17	Usnea strigosa	8069		_//	123		123		123	
	Usnea subfloridana	8072	<del>                                     </del>	27	().23	<del> </del>	123		123	
15	Usnea subscabrosa	8076	/-	<u> </u>			123		123	
	Xanthoria candelaria	8201			123	<del></del>	123		123	
	Vulpicida viridis	1020			123	<u> </u>	123		123	
		1		<u> </u>	123	<u> </u>	123		123	
		<u> </u>	ļ	<u> </u>	123		123		123	
		<b> </b>		<b>}</b>	123		123		123	
		<u> </u>	<del> </del>	<b> </b>	123	<del>                                     </del>	123		123	
		<del> </del>		<b>}</b>	123	<del> </del>	123		123	
		<del> </del>	<del>                                     </del>	<del>                                     </del>	12.3	<del> </del>	123		123	squamules only-exclude
	Cladonia squamules only				123		123		123	crustose forms-exclude
	Crustose lichen	<del>}</del>	<u> </u>	<u> </u>	123	<b></b>	123		123	bryophyte-exclude
	bryophyte	<u>.</u>	<del>}</del>	<u> </u>	123		123		123	
		<b> </b>	<b></b>	<b>}</b>	123	i	123		123	
		<u> </u>	<del> </del>	<b>1</b>	123	<del>                                     </del>	123		123	
		1	<del> </del>	1	1	<del> </del>	T			
		<b> </b>	<del> </del>	1		<del>                                     </del>				
		1			سيد مجمعين					

Lichen CommunitiesPLC	OT PACKING SLIP	FHM, 1994
•	<del>-</del>	
Plot hex number: 7	State; 5/ County: 10	3
Date: Crew Memb	er's Name: Crew n	umber:
A copy of this sheet will	be part of the permanent re	cord for this
plot. PLEASE COMPL		
	ampling began: WAV 0, 1830	
Record the time lichen s	ampling ended: W.Q.30	<u></u>
Total time spent sampling	g the plot: 2 les	
- 1 本計 特殊報告 With Mark - と近く夢記(3) (1) (2) (2) (三) マーム	the lichens, the vegetation.	and/or the
weather: Weather-Cla	and Stany, Kcs	
	K, hickory, Acs	mapk
REMEMBER:	tichane of James	MAL. COMMI
Record the abunc	Face Wilderness	Area
Remember to loc		
Try to put only c	VIRGINIA. ROCKBRIDGE CO.:	Elevation 2,517 ft
	James River FWA Plot No. 7 Belfast Trail (No.9) NE of Devils	Marbleyard at gap 0.6
	mi W of junction with Appalachian forest of chestnut oak, hickory as	nd red maple. Site is
	approx. 3.8 mi S/SE of Glenwood Re	anger Station.
· ·	Collected by Ken Hickman & Susan I July 1, 1994	No. 7-

Identified by Jonathan P. Dey

Herbarium of Jefferson National Forest, Virginia

## Lichen Identification Data Sheet Jefferson National Forest --1994

mes River Face Wilderness Area Plot. No.

Date: Collector 7/5/9+

te: Junty: Virginia Rockbulge

Lichen Specialist

J. Dey

		Data to	enter							
	Sancing name	Sp. code	Abund	Bag #	Α	Bag #	Α	8ag #	A	Comments
<u> </u>	Species name	301			123		123		123	
<u> </u>	Anaptychia palmulata	402			123		123		123	
<u> </u>	Anzia copodes	602			123		123		123	
	Bryoria bicolor Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			1.,2.,3		123		123	
<u> </u>	Canoparmelia caroliniana	802			123		123		123	
	Canoparmera Carosinana  Cetraria americana	∯ <del></del>			123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria cinaris Cetraria fendleri	1008			123		123		123	
<del>  ,</del>	Cetraria , renden Cetraria , oakesiana	1012	.3	10	12(3)		123		123	
├_	Cetraria orbata	1013	-		123		123		123	
<u> </u>	Cetrelia cetrarioides s.l.	1101			123		123		123	
		1102			123		123		123	
	Cetrelia chicitae Cetrelia olivetorum	1104			123		123		123	
-	Cladonia bacillaris	1203			123		123		123	
		1207			123		123		123	
<u> </u>	Cladonia caespiticia	1210			123		123		1.,2.,3	
	Cladonia chlorophaea s.l.	1211			123_		123		123	
<u> </u>	Cladonia coniocraea	1212			123		123		123	
<u></u>	Cladonia cristatella	1214			123		123		123	
<u></u>	Cladonia cylindrica	1243	J	12	12(3)		123		123	
1	Cladonia didyma	<del>                                     </del>			123		123		123	
<u> </u>	Cladonia floerkeana	1225			123		1.,23		123	
<b>\_</b>	Cladonia macilenta	1245			123		123		123	
1	Cladonia mateocyatha	1228			123		123		123	
,	Cladonia ochrochlora	1229			123		123		123	<u> </u>
	Cladonia parasitica	1242			123		123		123	
	Cladonia peziziformis				123		123		123	
	Cladonia ramulosa(pityrea)	1			123		123	<u> </u>	123	
	Cladonia ravenelii	1246			123		123		123	
	Cladonia simulata	1236	<b></b>	<b></b>	123		123	<u> </u>	123	
	Cladonia squamosa	1230			123		123		123	
	Cladonia subradiata	1			123		123		123	
	Cladonia vulcanica	1303			123		123		123	
	Coccocarpia erthroxyli	1304			123		123		123	
	Coccocarpia palmicola	1304		<u> </u>	123		123		123	
	Collema congiomeratum .	1412			123		123		123	
	Collema nigrescens	1415			123		123		123	
	Collema subflaccidum	2501			123		123		123	
	Everniastrum catawbiense	2601			123		123		123	
	Flavoparmelia caperata	2702			123		123		123	
	Flavopunctelia flaventior				123		123		123	
	Heteroderm, appalachensis		<b>}</b>	}	123		123		123	
	Heterodermia casarettiana	2004	-	l	123		1.,2.,3		123	
	Heterodermia croces	2806			123		12.,3		123	
	Heterodermia granulifera	2812			123		123		123	
	Heterodermia hypoleuca	2813		ļ	123		123		123	
	Heterodermia leucomelos	2814	<del> </del>	<b></b>	123		123		123	
	Heterodermia microphylla	2016	<del> </del>	<b> </b>	123	<u> </u>	123		123	
	Heterodermia obscurata	2816	<del> </del>	<b> </b>	123		1Z3		123	
	Heterodermia speciosa	2822	<del> </del>	<b> </b>	123		123		123	
	Heterodermia squamulosa	2823	<del> </del>	<b></b>	123	<del>                                     </del>	123		123	
	Hyperphyscia adglutinata	2901		<b></b>	123		123		123	
	Hyperphyscia syncolia	<b>1</b>		<b> </b>	123		123		123	
<u>/</u>	Hypogymnia krogiae	3110		<b></b>	123	<del> </del>	123		123	
	Hypogymnia physodes	3116		مسسسط		Laurence de la constante de la	والمراجع والمراجع والمراجع	والمراوات والمراوات والمراوات		•

SRFW 1247 # 8 7/5/1994

	070-20 7	244 M	-	<i>,,, 0, .</i>						
		Data to	enter			D #		Bag #	A	Comments
	Species name	Sp. code	Abund.	Bag #	A	Bag #	Α	549 *		
ក៏	Hypotrac croceopustulata	3201			123		123		123	
	Hypotrac. gondylophora	3205			123		123		123	
-	Hypotrachyna livida	3208			123		123		123	
<u> </u>	Hypotrachyna novella				123		123		123	
-	Hypotrachyna osseoalba	3210			123		123		123	
1	Hypotracriyita osseosioa	3215			123		123		123	
	Hyptrachyna pustulifera	3216			123		123		123	
	Hypotrachyna revoluta	3218			123		123		123	
	Hypotrachyna showmanii	3220			123		123		123	
<b> </b>	Hypotrachyna thysanota	3301	1.3	13	12.(3)		123		123	
	Imshaugia aleurites	3302	<u> </u>		123		123		123	
	Imshaugia placorodia	3302			123		123		123	
	Lept_austroamericana		<del>- ,</del>	5	(1)23		123		123	
4	Leptogium corticola	3609	<u> </u>	<u> </u>	123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum		<b></b>		123		123	i	123	
	Lobaria pulmonaria	3905	<u> </u>				123		123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii				123		123		123	
	Melanelia halei	4008	<u> </u>		123		123		123	
	Melanelia subaurifera	4015			123			<del></del>	123	
-	Menegazzia terebrata	4101	<u> </u>		1Z3		123		123	
-	Myelochroa aurulenta	4201	. <i>)</i>	6	12(.3)		123			
	Melochroa galbina	4202			123		123		123	
-	Myelochroa metarevoluta	4203			12_3		123		123	
-	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
-		4704			123		123		123	
	Pannaria leucosticta	4711			123		123		123	
	Pannaria rubiginosa	4713			1.,2.,3		123	<u> </u>	123	
	Pannaria tavaresii	4805	1	1	123		123	l	123	
1	Parmelia squarrosa	4806			123		123		123	
	Parmelia sulcata	4902	<del> </del>		123		123		123	
	Parmeliella corallinoides	Tourse of the last		<del> </del>	123		123		123	
	Parmeliella tryptophylla	4904		ļ	123		123		123	
	Parmelinopsis horrescens	5101			12(3)		123		123	
6	Parmelinopsis minarum	5102	٠.٤		123		123	1	123	
	Parmelinopsis spumosa	5104			A COLUMN TO SHARE THE PARTY OF		123		123	
	Parmeliopsis hyperopta	5202			123		123	<u> </u>	123	
	Parmotrema arnoldii	5301		<u> </u>	123	<del> </del>	123		123	
	Parmotrema austrosinese	5302	<u> </u>	<u> </u>	123	<u> </u>	123	<b>-</b>	123	
	Parmotrema crinitum	5305			123		123		123	
	Parmotrema eurysacum	5310			123	<u> </u>			123	
	Parmotrema of gardneri	5328			123		123	<del></del>	123	
	Parmotrema hypotropum	5314		<u> </u>	123	<u> </u>	123	<u> </u>	123	
ラ	Parmotrema margaritatum	5318	ス.		1(2)3		123		123	
/_	Parmotrema mellissii	5319			123	<u></u>	123	<u> </u>		
	Parmotrema michauxianum				123		123		123	
	Parmotrema perforatum	5323			123	]	123	<u> </u>	123	
		5303			123		123	<u></u>	123	
	Parmotrema perlata	5324	-	l	123		123	<u> </u>	123	
	Parmotr. praesorediosum	5326	-	<b> </b>	123		123	<u> </u>	123	
	Parmotrema rampoddense		<del> </del>	I	123		123		123	<u> </u>
	Parmotrema rigidum	5327	<b></b>	<b> </b>	123		123		123	
	Parmotrema stuppeum	5329		<b> </b>	123	<u> </u>	123		123	
	Parmotrema subtinctorum	5331	<del> </del>	<del> </del>	123		123		123	
	Parmotrema subsumptum		<del>                                     </del>	<b> </b>			123		123	
	Parmotrema tinctorum	5333		<del> </del>	123	<del> </del>	123	<u> </u>	123	
	Parmotrema ultralucens	5334	ļ	<b>J</b>	123	<del> </del>	123	<del>                                     </del>	123	
	Parmotrema xanthinum	5335	<u> </u>	<u> </u>	123	<b> </b>	123		123	
7	Phaeophyscia adiastola	5601		<b>}</b>	123	<b></b>			123	
-	Phaeophyscia ciliata	5603		<u> </u>	123	Ļ	123	<del> </del>	123	
	Phaeophys, erythrocardia	5604		<u> </u>	123	<u> </u>	123	<del> </del>	123	
3	9	5613	1	<u>4</u> (	<u>ම 123</u>	<u> </u>	123		123	
4	Phaeophyscia rubropulchra		.3	<b>J</b>	12(3)		123		1	
7	Filacopity		The state of the s							

URFW BLOT # 8 7/5/1994

1	Data to				0		Bag #	A	Comments
Species name	Sp. code	Abund	Bag #	Α	8ag #		Day#		
Physcia aipolia	5702	Ī		123		123		123	
Physica americana	5704	1		123		123		123	
				123		123		123	
Physcia crispa	5716	<u> </u>		123		123		123	·
Physica millegrana	5718	<del>                                     </del>		123		123		123	
Physica neogaea	5723	44	15	12(3)	المي ا	12.43		1.,2.,3	
Physcia stellaris	1-3/23	<u> </u>		123		123		123	
Physciella chloantha	5901	<del> </del>		123		123		123	
Physconia detersa	6106	1	1	123		123		123	
Platismatia tuckermannii	6301	<del> </del>	1	123		123		123	
Pseudevernia cladonia			1	123		123		123	
Pseudevernia consocians	6302	<b></b>	1	123		123		123	
Psudocyphellaria aurata	<u> </u>	<del> </del>	<b>!</b>	123		123		123	
Psudocyphellaria crocata	6404	<del> </del>	<del></del>	123		123		123	
Punctelia appalachensis	6701	<u> </u>	<b></b>	123		123		123	
Punctelia bolliana	6702	ļ,	ļ	12(3)		123		123	
Punctelia missouriensis	6705	<u> </u>	<b> </b>		7	12.(3)	11	12(.3)	14 (3)
Punctelia rudecta	6707	4	<u> </u>	1263)	<b></b>	123		123	
Punctella semansiana	6708		<u> </u>	123	<b></b>	123		123	
Punctella subrudecta	6711	<u> </u>		123			<del> </del>	123	
Pyxine caesiopruinosa	6803		4	1/2)3		123		123	
Pyxine sorediata	6808	I	<u> </u>	123	<u> </u>	123	<u> </u>		
	6901	1	16	₫.2.3		123		123	
Ramalina americana	6932	<del> </del>	1	123		123		123	
Ramalina stenospora	6940	<del>                                     </del>		123		123	<u> </u>	123	
Ramalina willeyi	7101	<del>                                     </del>		123		123	<u> </u>	123	
Rimelia cetrata		<del> </del>		123		123		123	
Rimelia diffractaica	7103	<del> </del>	<b> </b>	123		123		123	
Rimelia reticulata	7104	<del> </del>	<b> </b>	123		123		123	
Rimelia simulans	7105		<b>4</b>	123		123		123	
Rimella subisidiosa	7106	ļ	<u> </u>			123		123	
Sticta weigelii	7506	<u> </u>	<u> </u>	123	<del> </del>	123		12,.3	
Usnea aciculifera	8001	<u> </u>	1	123	<b> </b>	123		123	
Usnea ceratina	8014		<b></b>	123	<del>                                     </del>	123	<del>                                     </del>	123	
Usnea cornuta	8019	<u> </u>	<u> </u>	123	<u> </u>	123		123	
Usnea dasaea	8020	1	<u> </u>	123	<u> </u>	123	<del> </del>	123	
Usnea hesperina	8040		<u> </u>	123	<u> </u>		<del> </del>	123	
Usnea madeirensis	8047			123	<u> </u>	123		123	
Usnea mutabilis	8050			123	<u> </u>	123	<b></b>	123	
Usnea occidentalis	8054		į.	123		123			
	8063	7	14	(1).23		123	<u> </u>	123	
Usnea rubicunda	8069	1 7	17	(1)23		123	<u> </u>	123	
Usnea strigosa	8072	1	T	123		123	<u></u>	123	
Usnea subfloridana	8076		1	123		123		123	<u> </u>
Usnea subscabrosa	8201	<del>                                     </del>		123		123	<u> </u>	123	
Xanthoria candelaria		1	1	123		123	<u> </u>	123	
Vulpicida viridis	1020	<del> </del>	1	123	T	123		123	
	_}	-	<b></b>	123	1	123		123	
		<del></del>	<b>1</b>	123		123		123	
			-	123	<del>                                     </del>	123		123	
	_		<b>↓</b>		<del> </del>	123	1	123	
			1	123	<del> </del>	123	<del> </del>	123	
			<b>.</b>	123	<del> </del>	123	<b></b>	123	squamules only-exclud
Cladonia squamules only			1	123	<del> </del>	The second secon		12.,3	crustose forms-exclud
Crustose lichen			<u> </u>	123	<del> </del>	123	<del> </del>	123	bryophyte-exclude
			1	123	<u> </u>	123	<del>                                     </del>	123	
bryophyte	1			123	<u> </u>	123	<del> </del>	123	
<del> </del>	1	T		1,,2,,3		123	<del> </del>		
	-1	1	l l	123		123		123	
	1	<b>†</b>	1				<u> </u>		
li .	R				7		t	E .	1

Lichen CommunitiesPLOT PACKING SLIP	FHM, 1994
Plot hex number: State: Va County: Walk	163 Milse
Date: //5/44 Crew Member's Name: C. Author Crew nur	mber:
A copy of this sheet will be part of the permanent recoplot. PLEASE COMPLETE IT FULLY.	rd for this
Record the time lichen sampling began: 9/30  Record the time lichen sampling ended: 1///5	
Total time spent sampling the plot:	
Comments about the plot, the lichens, the vegetation, a weather:	
Weathers partly a study, Very	Hew!
Some Ocad lighers REMEMBER: Cicotnation & red oa	K-dcall
Record the abundance code on each hag!	10/0h
Lichens of James River	pint
Face Wilderness Area	
i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
VIRGINIA. ROCKBRIDGE CO.:	
Inner River RWA Plot No. 8 Elevation 1,800 It	
in 16 - Creek along Relfast Trail (No.9) near Devils	
Marbleyard . Forest of chestnut oak, red oak and dead yellow pine. Site is approx. 3.7 mi S/SE of Glenwood	
yellow pine. Site is approx. 3.7 Mz 3	
Collected by Ken Hickman & Carol Austin	
July 5, 1994 No. 8-	
Identified by Jonathan P. Dey	
Herbarium of Jefferson Rational Forest, Virginia	A A A

# Lichen Identification Data Sheet Jefferson National Forest --1994

mes River Face Wilderness Area Plot. No. te: Virginia
Junty: Lock Fridge

Date:

Collector Lichen Specialist

J. Dey

		Tosts to	enter	l						
		Data to Sp. code	Abund.	Bag #	A	Bag #	A	82g #	A	Comments
	Species name	301	700114	200	123		123		123	
	Anaptychia palmulata	402	<u> </u>		123		123		123	
-	Anzia copodes	602			123		123		123	
_	Bryoria bicolor	609			123		123		123	
	Bryoria furcellata	8301			123		123		123	
-	Candelaria concolor Candelaria fibrosa	8302			123		123		123	
]	Canoparmelia caroliniana	802			123		123		123	
1	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006	7	j	162)3	14	12(3)	12- (	4123	
1-	Cetraria ciraris Cetraria , fendleri	1008			123		123		12_3	
$\vdash$	Cetraria . oakesiana	1012	2-	24	1.23		123		123	
+	Cetraria orbata	1013			123		123		123	
-	Cetrelia cetrarioides s.l.	1101			123		123		123	
-	Cetrelia chicitae	1102			123		123		123	
$\vdash$	Cetrelia olivetorum	1104			123		123		123	
$\vdash$	Cladonia baciliaris	1203			123		123		123	
1	Cladonia caespiticia	1207			123		123		123	
	Cladonia chlorophaea s.l.	1210			123		123	<u> </u>	123	
7	Cladonia coniocraea	1211	2_	19	1 (2).3		1 3		123	
1	Cladonia cristatella	1212			123		123		123	
1	Cladonia cylindrica	1214	L	22	1(2).3		123		123	
1	Cladonia didyma	1243	4	18	1,722.3	· ·	123		123	
1-	Cladonia floerkeana				123		123		123	
.!	Cladonia macilenta	1225			123		123		123	
	Cladonia mateocyatha	1245			123		123		123	
. 4	Cladonia ochrochlora	1228			123		123			
	Cladonia parasitica	1229			123		123		123	
-	Cladonia peziziformis	1242			123	<u> </u>	123		123	
-	Cladonia ramulosa(pityres)	1234			123		123		123	
-	Cladonia ravenelii				123		123		123	
`	Cladonia simulata	1246			123		123	<u> </u>	123	
	Cladonia squamosa	1236			123		123		123	
	Cladonia subradiata				123		123		123	
	Cladonia vulcanica				123		123	<del> </del>	123	
	Coccocarpia erthroxyli	1303			123	<u> </u>	123		123	
3		1304	Z	16	1.(2).3		123		123	
7	Collema conglomeratum .				123		123	<u> </u>	123	
7	Collema nigrescens	1412	4	17	12(3)		123	<u> </u>	123	
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501			123		123		123	
-	Flavoparmelia caperata	2601	لن	_//_	12.(3)		123		123	
	Flavopunctelia flaventior	2702			123	<u> </u>	123	<del> </del>	123	
	Heteroderm. appalachensis	2802			123	<u> </u>	123	ļ	123	
	Heterodermia casarettiana	2804			123	<u> </u>	123	<del> </del>	123	
	Heterodermia croces	2806			123		123	<u> </u>	123	
	Heterodermia granulifera	2812			123		123	<del> </del>	123	
	Heterodermia hypoleuca	2813			123		123		123	
	Heterodermia leucomelos	2814			123		123	<del></del>	123	
	Heterodermia microphylla	Y			123	<b></b>	123	<del> </del>	123	
7	Heterodermia obscurata	2816	7	/0	12.3		12/3)	<del> </del>	123	
1	Heterodermia speciosa	2822	9 و	20	12(3)	<u> </u>	123	<u> </u>	123	
_	Heterodermia squamulosa	2823			123	<u> </u>	123		123	
—	Hyperphyscia addiutinata	2901			123	<u> </u>	123	<del> </del>	123	
•	Hyperphysica syncolla			1	123	<u> </u>	123	<del> </del>	123	
	Hypogymnia krogiae	3110			123	<u> </u>	123	<del> </del>	123	
·· -	Hypogymnia physodes	3116			123	مبيسييسي	123		16	
			التفريق المستوال المراجعي			<u> </u>				•

JRFW 111+ 4 7/5/1994

	1012-60 1	CAL PE	ر المستقد المستقد	1/3/						
		Data to	enter			Bag #	A	Bag #	A	Comments
	Species name	Sp. code	Abund.	Bag #	A	D20 #				
	Hypotrac, croceopustulata	3201			123		123		123	
	Hypotrac, gondylophora	3205			123		123		123	
النار ا	Hypotrachyna livida	3208	-54	\$	12.(3)		123			
<b>}</b>	Hypotrachyna novella				1.,2.,3		123		123	
-	Hypotrachyna osseoaiba	3210			123		123		123	
<u> </u>	Hyptrachyna pustulifera	3215			123		123		123	
-	Hypotrachyna revoluta	3216			123		123		123	
-	Hypotrachyna showmanii	3218			123		123		123	
<del> </del>	Hypotrachyna thysanota	3220			123		123		123	
<b> </b>	Imshaugia aleurites	3301			123		123			
<b> </b>	Imshaugia placorodia	3302			123		123		123	
-	Lept. austroamericana				123		123		123	
<del> </del>	Leptogium corticola	3609			123		123		123	
<del> </del>	Leptogium cyanescens	3611			123		123		123	
<b> </b>	Leptogium laceroides	3624			123		123		123	
-	Leptogium teretiusculum				123		123	ļ	123	
	Lobaria pulmonaria	3905			123		123		123	
-	Lobaria quercizans	3906			123		123		123	
-	Lobaria ravenelii				123		123		123	
<b>!</b>	Melanelia halei	4008			123		123	ļ	123	
-	Melanelia subaurifera	4015	T		123		123		123	
<b> </b>	Menegazzia terebrata	4101			123		123		123	
		4201	ئى	10 (	123		123		123	
11		4202			123		123		123	
<u> </u>	Melochroa galbina	4203			12_3		123		123	
<u> </u>	Myelochroa metarevoluta	4403			123		123		123	
-	Nephroma helveticum	4703			123		123		123	
<u> </u>	Pannaria leucophaea	4704			123		123		123	
.l	Pannaria leucosticta	4711			123		123	<u> </u>	123	
,	Pannaria rubiginosa	4713			123		123	<u> </u>	123	
_	Pannaria tavaresii	4805			123		123		123	
ļ	Parmelia squarrosa	4806			123		123		123	
	Parmelia sulcata	4902			123		123	<u> </u>	123	
	Parmeliella corallinoides	4904			123		123		123	
	Parmeliella tryptophylla	5101		<u> </u>	123		123	<u> </u>	123	
	Parmelinopsis horrescens	5102	س	77	123	20	e 123		123	
12	Parmelinopsis minarum	5104			123		123		123	
	Parmelinopsis spumosa	5202		<u> </u>	123		123		123	
	Parmeliopsis hyperopta				123		123		123	
	Parmotrema arnoldii	5301			123	·	123		123	
	Parmotrema austrosinese	5302			123		123		123	
	Parmotrema crinitum	5305		<u> </u>	123		123		123	
	Parmotrema eurysacum	5310	<del></del>	Ĺ	12.(3)		123		123	TLE
13	Parmotrema of gardneri	5328	700	4	12,3		123		123	
17	Parmotrema hypotropum	5314	J-7		123		123	1	123	
	Parmotrema margaritatum	5318	ļ		123		123		123	
	Parmotrema mellissii	5319	<u> </u>	<b></b>	123		123		123	
	Parmotrema michauxianum	5320					123		123	
	Parmotrema perforatum	5323	<u> </u>		123		123		123	
	Parmotrema perlata	5303	ļ	<b> </b>	123		123		123	
***************************************	Parmotr. praesorediosum	5324	<u> </u>	<u> </u>	123		123	<del> </del>	123	
	Parmotrema rampoddense	5326	<u></u>		123		123	<del>                                     </del>	123	
	Parmotrema rigidum	5327		<u></u>	123		123	<del>                                     </del>	123	
11	Parmotrema stuppeum	5329	-3	12-9	123		123	<del>                                     </del>	123	
	Parmotrema subtinctorum	5331	<u></u>	<u></u>	123		123	<del></del>	123	
	Parmotrema subsumptum			<b></b>	123		123	<del> </del>	123	
	Parmotrema tinctorum	5333	<u> </u>	<u> </u>	123	<u> </u>			123	
	Parmotrema ultralucens	5334		<u></u>	123		123		123	
	Parmotrema xanthinum	5335		<u> </u>	123		123	<del> </del>	123	
	Phaeophyscia adiastola	5601			123	<u></u>	123	<del></del>	123	
, ,	Phaeophyscia ciliata	5603			123	<u> </u>	123	<del> </del>	123	
	Phaeophys. erythrocardia	5604			123	<u> </u>	123	<u> </u>	123	
	Phaeophysia pusilloides	5613			123	<u> </u>	123	<b></b>	123	
	Phaeophyscia rubropulchra	4	ق	13_	12(3)		123	سيسيب يسيا	123	1
/*	a suggestion									

VRFW PLOT # 9 7/5/1994

	Data to	enter	0 4		8ag #	A	8ag#	Α	Comments
Species name	Sp. code	Abund.	B20 #	<u> </u>	Day +	123	Day F	123	
Physcia alpolia	5702			123				123	
Physcia americana	5704			123		123			
Physcia crispa				123		123		123	
Physica millegrana	5716			123		123		123	
Physica neogaea	5718			123		123		123	
Physcia stellaris	5723			123		123		123	
Physciella chloantha				123		123		123	
Physconia detersa	5901			123		123		123	
Platismatia tuckermannii	6106		Ĺ	123		123		123	
Pseudevernia cladonia	6301			123		123		123	
Pseudevernia consocians	6302			123		123		123	<u> </u>
Psudocyphellaria aurata				123		123		123	<u> </u>
Psudocyphellaria crocata	6404			123		123		123	<u> </u>
Punctelia appalachensis	6701			123		123		123	
Punctelia bolliana	6702			123		123		123	
Punctelia missouriensis	6705			123		123		123	
	6707		l	123		123		123	
Punctelia rudecta	6708			123		123		123	
Punctelia semansiana	6711	.7	J.	12(3)		123		123	
Punctella subrudecta	6803	<del></del>		123		123		123	<u> </u>
Pyxine caesiopruinosa	6808			123		123		123	
Pyxine sorediata	()	*	//	(V23	یر	(1),23		123	
Ramalina americana	6901	4,		123		123		123	
Ramalina stenospora	6932			123		123		123	
Ramalina willeyi	6940	<del></del>	10.	(P)123		123		123	
Rimelia cetrata	7101	لين	11 9	123		123		123	
Rimelia diffractaica	7103					123		123	
Rimelia reticulata	7104		<b></b>	123		123		123	
Rimelia simulans	7105			123		123		123	
Rimelia subisidiosa	7106		<u> </u>	123		123		123	
Sticta weigelli	7506			123		123		123	
Usnea adculifera	8001			123		123		1_23	
Usnea ceratina	8014		<u> </u>	123				123	
Usnea cornuta	8019			123		123		123	
Usnea dasaea	8020			123		123		123	<u> </u>
Usnea hesperina	8040	4_	47	1.(2).3		123		123	
Usnea madeirensis	8047			123		123		123	
Usnea mutabilis	8050			123		123		123	
Usnea occidentalis	8054			123		123		12.3	28 (2) 143
Usnea rubicunda	8063	<b>J</b>	6	12(3)		1263	8		21(1) 25
Usnea strigosa	8069			123		123		123	2,0/
Usnea subfloridana	8072			123	,	123		123	
Usnes subscabross	8076	· .		123		123		123	
Xanthoria candelaria	8201			123		1.,2.,3		123	
	1020			123		123		123	
Vulpicida viridis	1 1 1 2 2 2			123		123		123	
	1			123		123		123	
<u> </u>	<b>l</b>	<b></b>		123		123		123	
<u> </u>	<b> </b>	<b> </b>	<b> </b>	123		123		123	
<u> </u>	1	-		123		123		123	
	1		<b> </b>	123		123		123	<u> </u>
	<b> </b>			123		123		123	squamules only-exclude
Cladonia squamules only	<u> </u>	ļ	ļ	123		123		123	crustose forms-exclude
Crustose lichen	<b></b>		<b>}</b>	123		123		123	bryophyte-exclude
bryophyte	<u> </u>					123		123	
	1		<u> </u>	123		123		123	
	<b></b>	<u> </u>		123		123		123	
	<u> </u>			123	<u></u>	1,.6,,,			
	H .	i .	*	ī					

Lichen Communitie	sPLOT PACKING SLIP	FHM, 1994	,
Plot hex number:	7 State: VA County: Rome K. Hickman Member's Name: Austrew	Kbridge number: 2	6
A copy of this shee	et will be part of the permanent r	XIII)	
Record the time lic	hen sampling began: /2/ hen sampling ended: // mpling the plot: / //	30 15 'Smin,	
waather	e plot, the lichens, the vegetation  ones in last 15  pine, Scarlet Oa	1	t Oak
	Judy-weather		
REMEMBER: Record the Remember	Lichens of James Face Wilderness f	River Irea	•
Try to put	VIRGINIA. ROCKBRIDGE CO.:  James River FWA Plot No. 9  Belfast Creek along Belfast Trail (No boundary of wilderness area. Forest control of the scarlet oak, yellow pine and laurel.  3.7 mi S of Glenwood Ranger Station.	of chestnut oak,	
	Collected by Ken Hickman & Carol Aust July 5, 1994	in No. 9-	
	Identified by Jonathan P. Day Herbarium of Jefferson National Fores	st, Virginia	

Lichen Identification Data Sheet Jefferson National Forest --1994 Date:

mes	River	Face	Wilderness	Area	Plot.	No.	10
-----	-------	------	------------	------	-------	-----	----

Collector

ate: County: \_\_ Virginia

Lichen Specialist

J. Dey

		Data to		Bag #	Α	Bag #	Α	Bag #	Α	Comments
	Species name	Sp. code	Abund		1 2 .3		123		123	
7	Anaptychia palmulata	301	_ <b>&amp;</b>		123		123		123	
	Anzia copodes	402	<b></b>		123		1.2.3		123	
	Bryoria bicolor	602	<u> </u>		123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302	<del></del>	15	1.22.3		123		123	
2	Canoparmelia caroliniana	802	<u></u>	/->	123		123		123	
	Cetraria americana		<del> </del>	<b></b>	123		123		123	
	Cetraria ciliaris	1006		<u> </u>	123		123		12_3	
	Cetraria , fendleri	1008	<del> </del>	1-2-	12(3)		123		123	ルム
	Cetraria . oakesiana	1012	<del>                                     </del>	2	123		123		123	
	Cetraria orbata			<u> </u>	123		123		123	
	Cetrelia cetrarioides s.l.	1101		l	123		123		123	<u> </u>
	Cetrelia chicitae	1102	╁	<b> </b>	123		123		123	
	Cetrelia olivetorum	1104 1203	<del> </del>	1	123		123		123	
	Cladonia bacillaris	1203	<del> </del>		123		123		123	
	Cladonia caespiticia	The second secon	<del> </del>	<del>}</del>	123		123		123	
	Cladonia chiorophaea s.i.	1210		1	123		123		123	
	Cladonia coniocraea	1211	<del> </del>		123		123		123	
	Cladonia cristatella	1214	<del>                                     </del>		123		123		123	
	Cladonia cylindrica		<del> </del>		123		123		123	
	Cladonia didyma	1243	<del> </del>	<b>{</b>	123		123		123	
	Cladonia floerkeana	1005	<del>                                     </del>	-	123		123		123	
	Cladonia macilenta	1225	<del> </del>	1	123		123		123	
	Cladonia mateocyatha	1245	<del>                                     </del>	1	123		123		123	
1	Cladonia ochrochlora	1228	<del></del>	1	123		123		123	
	Cladonia parasitica	1229	<del></del>	1	123	1	123		123	
	Cladonia peziziformis	1242	<del></del>	<del> </del>	123		123		123	
	Cladonia ramulosa(pityrea)	1234	+	1	123		123		123	
	Cladonia ravenelii	1246		<b></b>	123		123		123	
	Cladonia simulata		-	┨	123		123		123	
	Cladonia squamosa	1236	<del></del>	1	123		123		123	
	Cladonia subradiata			╂┈┈┈	123		123		123	
	Cladonia vulcanica	1303		┨	123		123		123	
	Coccocarpia erthroxyli	1304		1	1.,2.,3		123		123	
	Coccocarpia palmicola	1304	+	┨	123		123		123	
	Collema conglomeratum .	1412	-	1	123	1	123		123	
	Collema nigrescens	1415	-	1	123		123		123	
	Collema subflaccidum	-()		<b>\</b>	123		123		123	
	Everniastrum catawbiense		1.5	1 ,	12.(3)		123		123	
4	Flavoparmelia caperata	2601 2702	<del></del>	1	123		123		123	
L	Flavopunctelia flaventior			- <b> </b>	123		123		123	
<u> </u>	Heteroderm, appalachensis	السنان المستعدد المستعد المستعدد المستع			123		123		123	
-	Heterodermia casarettiana			1	123		1.,2.,3		123	
1	Heterodermia croces	2806		1	123		123		123	
<u>                                     </u>	Heterodermia granulifera	2812	_	-∦	123		123		123	
	Heterodermia hypoleuca	2813		╢	123		123		123	
	Heterodermia leucomelos	2814		1	123		1.,2.,3		123	
<u> </u>	Heterodermia microphylla	2816		1	123		123		123	
<u> </u>	Heterodermia obscurata		+	1	123		123		123	
	Heterodermia speciosa	2822	1.3	1/4	12.3	স	123		123	
5	Heterodermia squamulosa	2823	<u> </u>		123		123		123	
1	Hyperphyscia adglutinata	2901	<del></del>		123		123		123	
	Hyperphyscia syncolia	<del> </del>		_	123		123		123	
	Hypogymnia krogiae	3110			123		123		123	
11	Hypogymnia physodes	3116								•

JRFW 114T # 10 7/26/1994

	JRFW PL	76 /	<i>V</i>	7/26/19			The second second second second second second second second second second second second second second second se			
			enter			Bag #	A	Bag #	A	Comments
	Species name	Sp. code	Abund.	B≥g #	^	549 #	123	207	1.,23	
	lypotrac. croceopustulata	3201			123		123		123	
П	typotrac, gondylophora	3205		<del>- , -  </del>	12.(3)		123		123	
,	Hypotrachyna livida	3208	3	5	123		123		123	
	Hypotrachyna novella			<del> </del>	123		123		123	
	Hypotrachyna osseoalba	3210			123		123		123	
	Hyptrachyna pustulifera	3215			123		123		123	
	Hypotrachyna revoluta	3216			123		123		123	
	Hypotrachyna showmanii	3218			123		123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	mshaugia aleurites	3301			123		123		123	
35.00	mshaugia placorodia	3302			123		123		123	
	Lept_austroamericana				123	<del></del>	123		123	
	Leptogium corticola	3609			123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123	,	123	
	Leptogium teretiusculum		<u> </u>	<b> </b>	123		123		123	
	Lobaria pulmonaria	3905	<b> </b>	<b>[</b>	123		123		123	
	Lobaria quercizans	3906	<u> </u>	<b> </b>	123		123		123	
	Lobaria ravenelii		<u> </u>	<b></b>			123		123	
1	Melanelia halei	4008	<u> </u>	<u> </u>	123		123		123	
	Melanelia subaurifera	4015		<u> </u>	123		123		123	
1	Menegazzia terebrata	4101	<u> </u>	<b> </b>	123		123		123	
	Myelochroa aurulenta	4201	<u> </u>	<b></b>	123		123		123	
-1	Melochroa galbina	4202			123		123		123	
-1	Myelochroa metarevoluta	4203			123		123		123	
-1	Nephroma heiveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123				123	<del></del>
	Pannaria leucosticta	4704			123		123		123	
-	Pannaria rubiginosa	4711			123		123		123	<del>,</del>
	Pannaria tavaresii	4713			123		123		123	
-	Parmelia squarrosa	4805	<i>i</i> .	12	1.6/3	7	1,(2.)3		123	
4	Parmelia suicata	4806			123	<u> </u>	123		123	
-	Parmeliella corallinoides	4902			123		123	<u> </u>		<u> </u>
-	Parmeliella tryptophylla	4904			123	<u> </u>	123	<del> </del>	123	
1	Parmelinopsis horrescens	5101			123		123	<u> </u>	123	
	Parmelinopsis minarum	5102			123		123		123	
	Parmelinopsis spumosa	5104			123		123	<del> </del>	123	
	Parmelinopsis spaniosa	5202			123		123		123	
	Parmeliopsis hyperopta	5301		1	123		123	<u> </u>	123	
	Parmotrema arnoldii	5302			123	<u> </u>	123	<u> </u>	1,,2,,3	
	Parmotrema austrosinese	5305			123		123		123	
	Parmotrema crinitum	5310	<del>                                     </del>		123		123		123	
	Parmotrema eurysacum		<del> </del>	1	123		123		123	
	Parmotrema of gardneri	5328	<del> </del>	1	123		123		123	
	Parmotrema hypotropum	5314	<del> </del>	1	123	T	123		123	
	Parmotrema margaritatum	5318	<del></del>	┨	123	1	123		123	
	Parmotrema mellissii	5319		1	123	1	123		123	,
	Parmotrema michauxianum	5320	+ 😾	100		1	123		123	
1	Parmotrema perforatum	5323		1 158	123	<b>†</b>	123		123	
	Parmotrema perlata	5303		<b></b>	123		123		123	
	Parmotr. praesorediosum	5324		<b></b>	123	1	123		123	
	Parmotrema rampoddense	5326	4	_	123	<del> </del>	123		123	
	Parmotrema rigidum	5327		-1	123	1	123		123	
	Parmotrema stuppeum	5329	4			+	123		123	
	Parmotrema subtinctorum	5331		-	123	+	123		123	
	Parmotrema subsumptum				123	<del> </del>	123		123	
	Parmotrema tinctorum	5333			123	<del> </del>	123		123	
	Parmotrema ultralucens	5334			123				123	
	Parmotrema xanthinum	5335			123		123		123	
	Phaeophyscia adiastola	5601			123		123		123	
	Phaeophyscia ciliata	5603			123		123		123	
	Phaeophys. erythrocardia	5604			123		123		123	
	LLISEODIAS' CLANIOCHICA	5613		H	123	1	123		123	
	Phaeophyscia pusilloides	1 3017			(e) .2.3		123			

VEFW PLOT # 10 7/26/1994

	Data to	,	0 4	A	Bag #	A	Bag #	Α	Comments
Species name	Sp. code	Abund.	Bag #		Oay #	123		123	
Physcia aipolia	5702			123		123		123	
Physcia americana	5704			123		123		123	······································
Physcia crispa				123		123		123	
Physcia millegrana	5716			123		123		1.,2.,3	
Physica neogaea	5718			123		123		123	· · · · · · · · · · · · · · · · · · ·
Physcia stellaris	5723			123		123		123	
Physciella chloantha				123	· · · · · · · · · · · · · · · · · · ·	123		123	<u>,</u>
Physconia detersa	5901			123		123		123	······································
Platismatia tuckermannii	6106			123		123		123	<del> </del>
Pseudevernia cladonia	6301			123		123		123	
Pseudevernia consocians	6302	<u> </u>		123		123		123	· · · · · · · · · · · · · · · · · · ·
Psudocyphellaria aurata	1			123		123		123	
Psudocyphellaria crocata	6404			123			····	123	
Punctelia appalachensis	6701			123		123		123	
Punctelia bolliana	6702		<u> </u>	123		123		123	<del></del>
Punctelia missouriensis	6705			123			10	12.4	······································
Punctelia rudecta	6707	ريد		12.(3)		(C)123		123	
Punctelia semansiana	6708	لتي	14_	(23		123		123	
Punctelia subrudecta	6711	لئي	4	12.3	<u> </u>	123		123	<u> </u>
Pyxine caesiopruinosa	6803		<b></b>	123	<u> </u>	123		123	
Pyxine sorediata	6808	7,7	_/3	12(3)		123			
	6901		H	123		123		123	
Ramatina americana	6932		1	123		123		123	
Ramalina stenospora	6940	<u> </u>		123		123		123	
Ramalina willeyi	7101	<u> </u>	1	123		123		123	
Rimelia cetrata			#	123		123		123	
Rimelia diffractaica	7103	٠	5	12.(3)	14 0	12.(3)	17 4	<b>323</b>	17 dyrug
Rimelia reticulata	7104	\ <del>\</del>	1-2-	123		123		123	
Rimelia simulans	7105	<del> </del>	╂	123	<u> </u>	123		123	
Rimelia subisidiosa	7106		<del> </del>	123	<del> </del>	123		123	
Sticta weigelii	7506	<u> </u>	<u> </u>	123	<del> </del>	123		123	
Usnea aciculifera	8001		1	123	<del> </del>	123		123	
Usnea ceratina	8014		<b></b>	123	<del> </del>	123		123	
Usnea cornuta	8019		1	123	<del></del>	123		123	
Usnea dasaea	8020		1		<del>                                     </del>	123		123	
Usnea hesperina	8040	<u></u>	<b>.</b>	123		123		123	
Usnea madeirensis	8047	<u> </u>	<u> </u>	123	<del> </del>	123		123	
Usnez mutabilis	8050		<u> </u>	123	<del> </del>	123	<del>                                     </del>	123	
Usnea occidentalis	8054		_ <b> </b>	123		123	<del>                                     </del>	123	
Usnea rubicunda	8063	み	9_	1,22.3	<b></b>	123		123	
Usnea strigosa	8069		1	123	<del> </del>		<u> </u>	123	
Usnea subfloridana	8072			123	<del> </del>	123	<del>                                     </del>	123	
Usnea subscabrosa	8076			123	<del> </del>	123	+	123	
Xanthoria candelaria	8201		1	123	<del> </del>		1	123	
Vulpicida viridis	1020		1	123	<del></del>	123	<del>                                     </del>	123	
10000000			1	123	.	123	<del> </del>	123	
			1	123	<b></b>	123	<del> </del>	123	
				123		123		123	
_				123		123	<del> </del>	123	
				123		123	<del> </del>		
	_	1		123		123	<del> </del>	123	squamules only-exclud
Oladaria arriamulas cabe		1		123	<u> </u>	123	<del> </del>	123	crustose forms-exclud
Cladonia squamules only		<del>                                     </del>		123		123	<del> </del>	123	
Crustose lichen	-	+	1	123		123	<u> </u>	123	DLAODIIA CE. SYCHOR
bryophyte	_	+	1	123		123		123	<del>                                     </del>
			-	123		123		123	
		<del> </del>	-}	1.2.3		123		123	
			1	1,,2,,3	<del>                                     </del>				
<u>k</u>	ų.		11						I

Plot hex number: O State County: O State Count

REMEMBER:

Record the abu

Try to put only

Collected by Ken Hickman & Cindy Huber July 26, 1994

ROCKBRIDGE CO.:

James River FWA Plot No. 10

Glenwood Ranger Station.

VIRGINIA.

No. 10-

Elevation 2,360 ft

Identified by Jonathan P. Day Herbarium of Jefferson National Forest, Virginia

Face Wilderness Area

Appalachian Trail, approx. 200 ft N of Marble Spring and 0.6 mi N/NE of Hichcock Knob. Forest of chestnut oak and hickory. Site is approx. 5.5 mi S/SE of

## APPENDIX B

Data Sheets for Corticolous Macrolichens Collected in the Summer of 1994 in Plots 1-10 in the Mount Rogers National Recreation Area, Virginia.

(Also includes copy of plot packing slip and sample voucher label for each plot.)

Collector

County: Virginia

Elev. Fino H

Lichen Specialist

The state of the s	Data to	enter							
Species name	Sp. code	Abund.	Bag #	Α	Bag #	A	Bag #	A	Comments
	301			1.,2.,3		123		123	
Anaptychia palmulata	402			123		123		123	
Anzia copodes	602			123		123		123	
Bryoria bicolor Bryoria furcellata	609			123		123		123	
Candelaria concolor	8301	<b></b>		123		123		123	
Candelaria fibrosa	8302			123		123		123	
Canoparmelia caroliniana	802			123		123		123	
Cetraria americana	1			123	· · · · · · · · · · · · · · · · · · ·	123		123	
/ Cetraria ciliaris	1006	1	35	162.33	***************************************	123		123	
Cetraria chiaris	1008	7		123		123		123	
	1012	7	4	12(3)	19	(의23	24	1.(2)3	
Cetraria . oakesiana Cetraria orbata	1013			123		123		123	
Cetrelia cetrarioides s.l.	1101	1		123		123		123	
J Cetrelia chicitae	1102	1	34	1/2/3		123		123	
Cetrelia olivetorum	1104			123		123		123	
Cladonia badilaris	1203			123		123		123	
	1207	7	<i>3</i> 7	12(3)	40	12.3		123	
	1210			123		123		123	
J' Cladonia coniocraea	1211	Į.	16	<i>2</i> ∕2∖3		123		123	
Cladonia cristatella	1212			123		123		123	
Cladonia cylindrica	1214			123		123		123	
	1243	17	22	12.(3)		123		123	
Cladonia didyma Cladonia floerkeana	1			123		123		123	<u></u>
Cladonia macilenta	1225	<u> </u>		123		123		123	
Cladonia mateocyatha	1245	1		123		123		123	
Cladonia ochrochiora	1228			123		123		123	
Cladonia parasitica	1229	1		123		123		123	
Cladonia peziziformis	1242	<del> </del>		123		123		123	
Cladonia ramulosa(pityrea		†		123		123		123	
Cladonia ravenelii	4	†	-	123		123		123	
Cladonia simulata	1246			123		123		123	
Cladonia squamosa	1236	1	1	123		123		123	
Cladonia subradiata				123		123		123	
Cladonia vulcanica				123		123		123	
Coccocarpia erthroxyli	1303	1	1	123		123		123	
Coccocarpia palmicola	1304	<del>                                     </del>		123		123		1.,2.,3	
Collema conglomeratum	1	†		123		123		123	
Collema nigrescens	1412	1	İ	123		123		123	
Collema subflaccidum	1415	1		123		123		123	
Everniastrum catawbiens		1	1	123		123		123	
6 Flavoparmelia caperata	2601	17	8	(23		123		123	
Flavopunctella flavention	2702	1	1	123		123		123	
Heteroderm, appalachensi		1		123		123	Ţ.	123	
	2804	1,	J4	12.3		123		123	
7 Heterodermia casarettian Heterodermia crocea	2806			123		123		123	
Heterodermia granulifera	2812	<del> </del>	1	123		123		123	
Heterodermia hypoleuca	2813	+		123		123		123	
Heterodermia leucomeios	2814	1	1	123		123		123	
Heterodermia microphylla		+	1	123		123		123	
P Heterodermia incopriyas	2816	1.3	vb	12(3)		123		123	
P Heterodermia obscurata	2822	+	1	123		123	<u> </u>	123	
Heterodermia speciosa		<del>                                     </del>	1	123		123		123	
Heterodermia squamulosa	2901	+		123	<del>                                     </del>	123		123	
Hyperphyscia adglutinata	H 6301	<del> </del>	<del>                                     </del>	123	<del> </del>	123		123	
Hyperphyscia syncolia	1 2110	<del> </del>	1	123	†	123		123	
Hypogymnia krogiae	3110	1.3	+-		14	12(3	) [	123	
f Hypogymnia physodes	3116	<b>3</b>	5.	Q23		1203	/	1 163	

MARILA plot 1 15 fully 1984

		Data to	enter							
	Species name	Sp. code	Abund.	Bag #	Α	Bag #	Α	Bag #	Α	Comments
=		3201	74,0114	oug "	123		123		123	
,	Hypotrac croceopustulata	3205			123		123		123	
	Hypotrac gondylophora	3203 3208	<i>J</i>	3	12(3)		123		123	
10	Hypotrachyna livida	3200	<u> </u>		123		123		123	
-	Hypotrachyna novella	3210			123		123		123	
$\parallel$	Hypotrachyna osseoaiba	3215			123		123		123	<u> </u>
-	Hyptrachyna pustulifera	3215	3	14	<b>€</b> 2.2.3	¥.,	1(2).3	12	1 3	
1	Hypotrachyna revoluta	3218	<u> </u>	· · ·	123	7 -	123	, -	123	
-	Hypotrachyna showmanii	3220			123		123		123	
	Hypotrachyna thysanota	3301			123		123		123	<u> </u>
	Imshaugia aleurites	3302			123		123		123	
	Imshaugia placorodia	3302			123		123		123	
	Lept. austroamericana	3609			123		123		123	<u> </u>
	Leptogium corticola	3611			123		123		123	
	Leptogium cyanescens	3624			123		123		123	
<b> </b>	Leptogium laceroides	3024	<b></b>		123		123		123	f
	Leptogium teretiusculum	3905			123	<u></u>	123		123	
<b> </b>	Lobaria pulmonaria				123		123	<u></u>	123	
	Lobaria quercizans	3906			123		123		123	
	Lobaria ravenelii	4000	Z -	100	1.2.3		123		123	<u> </u>
12	Melanelia halei	4008	-	49		<b></b>	123	<b></b>	123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123	l	123	
	Myelochroa aurulenta	4201	<b>!</b>		123		1.(2).3		123	
B	Melochroa galbina	4202	<u> </u>		1.23	10		<u> </u>	123	
	Myelochroa metarevoluta	4203	<u> </u>		123		123			
	Nephroma helveticum	4403			123		123	<u> </u>	123	<u> </u>
	Pannaria leucophaea	4703		<u> </u>	123		123	<u> </u>	123	
	Pannaria leucosticta	4704			123		123		123	
	Pannaria rubiginosa	4711	<u> </u>		123		123	<u> </u>	123	
	Pannaria tavaresii	4713	<u> </u>		123	<u> </u>	123	<u> </u>	123	
	Parmelia squarrosa	4805	<u> </u>		123		123		123	
14	Parmelia sulcata	4806	7		12.(3)		123		123	
	Parmeliella corallinoides	4902	<u> </u>		123		123		123	<del> </del>
	Parmeliella tryptophylla	4904			123		123		123	
15	Parmelinopsis horrescens	5101	J	28	12.(3)		123		123	
	Parmelinopsis minarum	5102			123		123		123	
16		5106	λ	18	1.(2)3		123	<u> </u>	123	<u> </u>
	Parmeliopsis hyperopta	5202			123		123		123	
	Parmotrema arnoldii	5301			123		123		123	
	Parmotrema austrosinese	5302			123		123		123	
17	Parmotrema crinitum	5305	انو	19	1.(2).3	25	12.(3)		123	
12	Parmotrema eurysacum	5310	12	Let	1(2)3	<u> </u>	123		123	
1	Parmotrema of gardneri	5328			123		123		123	
1	Parmotrema hypotropum	5314			123		123		123	
1	Parmotrema margaritatum				123		123		123	
	Parmotrema mellissii	5319			123		123		123	
	Parmotrema michauxianum				123		123		123	
	Parmotrema perforatum	5323			123		123		123	
-	Parmotrema perlata	5303			1.,2.,3		123		123	
-	Parmotr. praesorediosum	5324		1	123		123		123	
-	Parmotrema rampoddense	5326	†		123		123		123	
-	Parmotrema rigidum	5327	1		123		123		123	
1	Parmotrema stuppeum	5329			123		123		123	
-	Parmotrema subtinctorum	5331	1		123		123		123	
-	Parmotrema subsumptum	1			123		123		123	
-	Parmotrema tinctorum	5333	<del>                                     </del>	1	123		123		123	
-	Parmotrema ultralucens	5334	†	1	123		123		123	T T
1	Parmotrema viu alucens Parmotrema xanthinum	5335	<b>t</b>	<b>t</b>	123	1	123	]	123	
		5601	<del></del>	1	123		123		123	
	Phaeophyscia adiastola	5603	<del>                                     </del>	1	123	t	123		123	
<b> </b>	Phaeophyscia ciliata		<del>                                     </del>	<b> </b>	123	<del>                                     </del>	123		123	
-	Phaeophys. erythrocardia	5604	<del>                                     </del>	<b> </b>	123	<del>                                     </del>	123		123	
-	Phaeophyscia pusilloides	5613	3	28	@123	4/	1.23	4.6	1.2).3	
11	Phaeophyscia rubropulchra	5614	1 7	il T.T.		1				

MENING pur 1 15 fuly 1494

F 0		I O - 2 - 2 -	enter							
		Data to Sp. code	Abund	Bag #	A	Bag #	A	Bag #	Α	Comments
<u>_</u>	Species name	The second second	Accuracy	- 08Y #	123		123		123	
,	Physcia aipolia	5702			123		123	······································	123	
	Physcia americana	5704			123		123		123	
	Physcia crispa	5716	نر	9	2123		123		123	
10	Physica millegrana	5718	<u> </u>		123		123	·····	123	
	Physica neogaea	5723	.3	41	12.(3)	9	1/22.3	19	123	
-1	Physcia stellaris	3123	<b>-</b>		123		123		123	
	Physciella chloantha	5901			123		123		123	
-	Physconia detersa Platismatia tuckermannii	6106			123		123		123	
-	Pseudevernia dadonia	6301			123		123		123	
-	Pseudevernia consocians	6302	<u> </u>		123		123		123	
	Psudocyphellaria aurata				1.,2.,3		123		123	
$\parallel$	Psudocyphellaria crocata	6404			123		123		123	
-	Punctelia appalachensis	6701	<u> </u>		123		123		123	
-	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			123		123		123	
سنا	Punctelia rudecta	6707	3/	7	12.(3)		123		123	
1	Punctelia semansiana	6708	7	4	1(2)3		123	<u> </u>	123	
Lub LY	Punctelia subrudecta	6711	エ	8	1.(2).3		123		123	
-	Pyxine caesiopruinosa	6803			123		123	<b></b>	123	
11	Pyxine sorediata	6808	J	17	12.3		123		123	
	Ramalina americana	6901	3	44	1,72,8	48	1(.2).3	15	162).3	27(2)
24	Ramalina stenospora	6932	<u> </u>	1	123		123		123	
1	Ramalina willeyi	6940			123		123		123	
-	Rimelia cetrata	7101			123		123		123	
$\vdash$	Rimelia diffractaica	7103			123		123		123	
	Rimelia reticulata	7104			123		123		123	
-	Rimelia simulans	7105			123		123		123	
	Rimella subisidiosa	7106	1		123		123		123	
<del></del>	Sticta weigelii	7506			123		123		123	
1	Usnea aciculifera	8001			123		123		123	
17	Usnea ceratina	8014	17	2/4	223		123		123	trug
1	Usnea cornuta	8019			123		123		123	
l	Usnea dasaea	8020			123		123	<u> </u>	123	
<b> </b>	Usnea hesperina	8040			123	<u> </u>	123		123	
-	Usnea madeirensis	8047			123		123	<del> </del>	123	
-	Usnea mutabilis	8050			123		123	<u> </u>	123	
1	Usnea occidentalis	8054		<u> </u>	123		123		123	
	Usnea rubicunda	8063		<u> </u>	123		123	<del> </del>	123	12(1)
2.17	Usnea strigosa	8069	<b>V</b>	42	1.(2),3	Jo	(1)23	31	1,2,3	
29	Usnea subfloridana	8072	/	46	(1).23	<u> </u>	123	1	123	
	Usnea subscabrosa	8076			123	<u> </u>	123	<del> </del>	123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020		<b></b>	123	<u> </u>	123		123	Ging
30	Unea preffrace	8073	1	474		<u> </u>	123	<b>-</b>	123	
	· .				1. 3		123	1	123	
11	chuckini		<u> </u>		123	<del> </del>	123	<del>                                     </del>	123	
	heavaslok		<del>                                     </del>	2.3	(1).23	<u> </u>	123		123	7 -
				<u> </u>	12.	<u> </u>	123	<del> </del>	123	
		<u> </u>	4	<b></b>	123	<del> </del>	123	16	1 2 0	squamules only-exclude
	Cladonia squamules only	<u> </u>		1_2_	1.(2).3	/9	123	<del>"</del>	123	
	Crustose lichen	<u> </u>	<u> </u>	15	<u>∆23</u>	<del> </del>			123	bryophyte-exclude
	bryophyte			<b></b>	123	<del> </del>	123	-	123	21,707113.50 43.50
		<b></b>	4	4	123	<del> </del>	123		123	
		1		4	123	<del> </del>	123	<del> </del>	123	
		<u> </u>		<b>.</b>	123	<del> </del>	123	<u> </u>	1	
			4			<del> </del>	+	<del> </del>		
		1		1		محمورين	المرجوب الم			

Lichen Communities Three flake Trail @	PLOT PACKING SLIP	FHM, 1994
Plot hex number: Plot # /	State: VA County:	Grayson
Date: 15 Toly 94 Crew	Member's Name: S. Powers	Crew number:
This will be part of the perma	anent record for this plot. PLEASE Co	OMPLETE IT FULLY!
Record the time lichen sampl Record the time lichen sampl Total time spent sampling the	ing ended: //; as AM	••
Comments about the plot, the Overcast and hazy (Fo	lichens, the vegetation, and/or the wea	ither:
REMEMBER:  Record the abundance Remember to look for Try to put only one specific controls.	r the common species.	

#### Lichens of Mt. Rogers National Recreation Area

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 1 Elevation 4,180 ft
Approx. 1,100 ft E of the road switchback (at 4,200 ft

contour on FS Road 613 S of VA Route 603 W of Troutdale). Site is downslope from Third Peak Trail (No. 4521) and is approx. 2.1 miles SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 15, 1994

No. 1-

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia Fine hota Lake / apossum track

Lichen Identification Data Sheet Jefferson National Forest --1994

t. Rogers National Recreation Area Plot. No. 2

Collector

15 July 1897 T. Blever - Stowers

cate:
County: \_\_\_\_

Virginia A caycon

Elassio (+

Lichen Specialist

J. Dey

		Data to	Anter	7						
	Canadan noma	Sp. code	Abund	Bag #		Bag #	Α	Bag #	Α	Comments
-	Species name	301	7,00		123		123		123	
	Anaptychia palmulata	402			123		123		123	
	Anzia copodes  Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
-	Candelaria fibrosa	8302			123		123	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria , fendleri	1008			123		123		123	
7	Cetraria . oakesiana	1012	<u> </u>	45	12(3)		123		123	
	Cetraria orbata	1013			123		123	<del></del>	123	
	Cetrelia cetrarioides s.l.	1101	ļ.,		123	····	123		123	
	Cetrelia chicitae	1102	ļ		123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia bacillaris	1203	<del>                                     </del>		123		123		123	
4	Cladonia caespiticia	1207	<u> </u>	_//	12.(3)		123		123	
	Cladonia chlorophaea s.i.	1210	<u> </u>		123		123		123	
	Cladonia coniocraea	1211	<u> </u>		123		123		123	
	Cladonia cristatella	1212	<u> </u>		123		123		123	
	Cladonia cylindrica	1214	<u> </u>		123		123		123	
	Cladonia didyma	1243					123		123	
1	Cladonia floerkeana		<b>ļ</b>		123		123		123	
-	Cladonia macilenta	1225	<del> </del>	<u> </u>	123		123		123	
	Cladonia mateocyatha	1245	<del> </del>	<b>]</b>	123		123	<u></u>	123	
	Cladonia ochrochiora	1228	<del> </del>	<b> </b>	123		123		123	
	Cladonia parasitica	1229	<del> </del>	<b>!</b>	123		123		123	
<u></u>	Cladonia peziziformis	1242	<del>                                     </del>	<u> </u>	123	<del></del>	123		123	
<u></u>	Cladonia ramulosa(pityrea)	1234	<del> </del>		123		123		123	
<b></b>	Cladonia ravenelli	1246	<b> </b>	<b>}</b>	123		123		123	
<b></b>	Cladonia simulata	1236	<del> </del>	<b> </b>	123		1.2.3		123	
<b>_</b>	Cladonia squamosa	1230	<del> </del>	<b> </b>	123		123		123	
<b> </b>	Cladonia subradiata	<del>                                     </del>	<del> </del>		123		123		123	
]	Cladonia vulcanica	1303	<del> </del>	Î	123		123	ĺ	123	
<u> </u>	Coccocarpia erthroxyli	1303	<del> </del>	1	123		123		1.,23	
<b></b>	Coccocarpia palmicola	1304	<del> </del>	1	123		123		123	
<b> </b>	Collema conglomeratum	1412	<del> </del>		123		123		123	
1-	Collema nigrescens Collema subflaccidum	1415	<del>                                     </del>		123		123		123	
<b> </b>	Everniastrum catawbiense	2501		1	123		123		123	
<u> </u>	Flavoparmelia caperata	2601	1 7	5	(4)23		123		123	
14	Flavopunctelia flaventior	2702	<del>                                     </del>	<b>                                     </b>	123		123		123	
-	Heteroderm, appalachensis		1	1	123		123		123	
<b> </b> -	Heterodermia casarettiana		<del> </del>		123		123		123	
-	Heterodermia croces	2806	1	1	123		123		123	
-	Heterodermia granulifera	2812	T	1	123		123		123	
-	Heterodermia hypoleuca	2813	1		123		123	<u> </u>	123	
-	Heterodermia leucomeios	2814		1	123		123	<u> </u>	123	
-	Heterodermia microphylla	1	1	I	123		123		123	
-	Heterodermia obscurata	2816	1	1	123		123	<u> </u>	123	
-	Heterodermia speciosa	2822	1	1	123		123		123	
1	Heterodermia squamulosa	2823	1	17	1,2,3		123	<u> </u>	123	
11_/	Hyperphyscia addiutinata	2901		1	123		123	<b></b>	123	
<u> </u>	Hyperphyscia syncolia				123		123	ļ	123	
	Hypogymnia krogiae	3110	T		123		123		123	
<b> </b>	Hypogymnia physodes	3116	3	49	1./2,3	1.4	1,(2),3	15	1(,2).3	
H.J	B LINE AND AND AND AND AND AND AND AND AND AND	and the second second	الخوج المواسية والأوا							

MILNIA PLAT 2 15 July 1944

~	,,,,									
" 1		Data to	enter	70 - m - M		Bag #	A	Bag #	A	Comments
	Species name	Sp. code	Abund.	Bag #	Α	049 #		Day #		Confilero
	Hypotrac. croceopustulata	3201			123		123		123	· · · · · · · · · · · · · · · · · · ·
	Hypotrac. gondylophora	3205		<u></u>	123		123		123	
	Hypotrachyna livida	3208			123		123		123	
	Hypotrachyna novella				123		123		123	
	Hypotrachyna osseoaiba	3210			123		123		123	
	Hyptrachyna pustulifera	3215			123		123		123	
1	Hypotrachyna revoluta	3216			123		123		123	
	Hypotrachyna showmanii	3218	.7		12.(3)		1.2		12	切鱼
	Hypotrachyna thysanota	3220	9		123		123		123	
1		3301			123		123		123	
	Imshaugia aleurites	3302			123		123		123	
1	Imshaugia placorodia	3302			123		123		123	
	Lept. austroamericana	3600	-		123		123		123	
	Leptogium corticola	3609	-		123		123		123	
	Leptogium cyanescens	3611					123		123	
	Leptogium laceroides	3624			123				123	
	Leptogium teretiusculum		<b>ļ</b>		123	<b> </b>	123		123	
	Lobaria pulmonaria	3905	<u> </u>		123	ļ	123			
	Lobaria quercizans	3906	<u> </u>		123		123		123	
	Lobaria ravenelii		<u></u>		123	<u> </u>	123		123	
-,	Melanelia halei	4008	لو.	2/	1(2).3	6	12(3)		123	
	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123		123	
1	Myelochroa aurulenta	4201			123		123		123	
1	Melochroa galbina	4202	1		123		123		123	
		4203	<b>-</b>		123		123		123	
	Myelochroa metarevoluta	4403	<del>                                     </del>		123		123		123	
	Nephroma helveticum	4703	<del> </del>		123	<u> </u>	123		12.,3	
	Pannaria leucophaea		<del> </del>	<b> </b>	123		123		123	
"	Pannaria leucosticta	4704	<del> </del>	<u></u>	123	-	123		123	
	Pannaria rubiginosa	4711	<b> </b>	<u> </u>			123		123	
	Pannaria tavaresii	4713	<u> </u>	<b> </b>	123		123		123	
10	Parmelia squarrosa	4805	<u> </u>	26_	12(3)				123	
	Parmelia sulcata	4806	<u> </u>		123		123	<u> </u>	123	
	Parmellella corallinoides	4902			123		123			
	Parmeliella tryptophylla	4904	<u> </u>	<u> </u>	123		123		123	
9	Parmelinopsis horrescens	5101	3	¥	12.3	1	12.0		123	
13	Parmelinopsis minarum	5102	<b>J</b>	31	12(3)	30	12.8		123	
	Parmelinopsis 49%	5/00	-3	18"_	1.20	3	120	23_	1.3	LB
-	Parmeliopsis hyperopta	5202			123	<u> </u>	123		123	
1	Parmotrema arnoldii	5301			123		123		123	
	Parmotrema austrosinese	5302	1		123		123		123	
		5305	J	/2	122		123		123	
1/2	Parmotrema crinitum	5310	+		123		1,.23		123	
	Parmotrema eurysacum		<del> </del>	1	123		123		123	
-	Parmotrema of gardneri	5328	<del> </del>		123	<del>                                     </del>	123		123	
	Parmotrema hypotropum	5314	<del> </del>	1	123		123		123	
	Parmotrema margaritatum		<del> </del>	1		<del> </del>	123		123	
	Parmotrema mellissii	5319	<del>                                     </del>	1	123		123	<u> </u>	123	
	Parmotrema michauxianum	5320	1	<b> </b>	123				123	
	Parmotrema perforatum	5323	1	<u> </u>	123		123		123	
	Parmotrema perlata	5303	<u> </u>	<b> </b>	123	<del> </del>	123	<u> </u>		
	Parmotr. praesorediosum	5324			123	<u> </u>	123	<u> </u>	123	
	Parmotrema rampoddense	5326		Į .	123		123		123	
<b> </b>	Parmotrema rigidum	5327		1	123		123	<u> </u>	1.,2.,3	
1	Parmotrema stuppeum	5329		]	123		123		123	
-	Parmotrema subtinctorum	5331	1		123		123		123	
-	Parmotrema subsumptum	1		1	123		123		123	
-		5333	1	1	123	]	123		123	
-	Parmotrema tinctorum	5334	1	1	123		123		123	
IL	Parmotrema ultralucens		<del> </del>	1	123	1	123		123	
	Parmotrema xanthinum	5335	<del> </del>	<del> </del>		<del>                                     </del>	123	1	123	
	ant the second adjacency	5601	1		123	<u> </u>		<del>                                     </del>	123	
	Phaeophyscia adiastola			16	1 4 2 2		1 7 7 2			
	Phaeophyscia ciliata	5603			123		123			
	Phaeophyscia ciliata Phaeophys, erythrocardia	5603 5604			123		123		123	
	Phaeophyscia ciliata	5603 5604 5613								

MANAA PLAT 15 Say 1894

	Data to	enter					1 .	1	
Soecies name		Abund.	Bag #	Α	82g #	Α	8ag#	Α	Comments
				123	Calar Walter Management	123		123	
	-					123		123	
	1					123		123	
	5716			123		123		123	
				123		123		123	
	5723			123		123		123	
				123		123			
	5901			123		123			
	6106			123					
Pseudevernia ctadonia	6301								
Pseudevernia consocians	6302						<u> </u>		
Psudocyphellaria aurata							<b></b> _		
	6404						<u> </u>		
	6701								
Punctelia bolliana									
Punctelia missouriensis	4								
Punctelia rudecta	6707	<u> </u>	20		<u> </u>		<u> </u>		·
Punctelia semansiana	6708						<u> </u>		
Punctelia subrudecta	-	<u> </u>	<b></b>		<u></u>		<u>                                      </u>		**************************************
Pyxine caesiopruinosa	6803	<b> </b>					<u> </u>		
Pyxine sorediata	6808	-حح	14		10	1	<b></b>		
Ramalina americana	6901	<u> </u>					<u> </u>		
Ramalina stenospora	6932						<u> </u>		
Ramalina willeyi	6940						<u> </u>		
Rimelia cetrata	7101								
Rimelia diffractaica	7103						<u> </u>		
Rimelia reticulata	7104	نو ا	19				<u> </u>		
Rimelia simulans	7105								
Rimelia subisidiosa	7106						<u> </u>		
	7506								
Usnea aciculifera	8001		1				<u> </u>		
Usnea ceratina	8014		<u> </u>				<del> </del>		
Usnea cornuta		<u> </u>	<b></b>						
Usnea dasaea	-			4					
Usnea hesperina			<b></b>		<u> </u>			<del>(                                    </del>	
Usnea madeirensis		<u> </u>	<b></b>				<del> </del>		
Usnea mutabilis	43	<u> </u>	4		<u> </u>		<del> </del>		
	and the same of th	ļ	<b> </b>		<b></b>		<u> </u>		
Usnea rubicunda		<u> </u>	<u> </u>						
Usnea strigosa		<b>                                     </b>	AL-		<b> </b>				
Usnea subfloridana		<del> </del>	<b>1</b>		<del> </del>	1	<del>                                     </del>		
		<del> </del>	<b>}</b>		<del> </del>				
		<del> </del>	<del>}</del>				<del> </del>		
Vulpicida viridis	1020	<del> </del>	<b>!</b>				T		
	1	<del> </del>	1		<del> </del>		1		
	<b>{</b>	<del> </del>	<b> </b>		<del>                                     </del>		1		
	<b></b>	<del> </del>	1		<del>                                     </del>				
	<b></b>	<del> </del>	<b> </b>		<u> </u>				
	<b></b>	<del> </del>	<b>!</b>				1	123	
<b>A</b>	1	<del> </del>	1		12			123	squamules only-exclude
	1	<del>                                     </del>	<u> </u>					123	crustose forms-exclude
	1	<del>                                     </del>	1 ''		1		1	123	bryophyte-exclude
bryophyte	1	+	<del> </del>	-				123	
	1	<del> </del>	1	_	<del> </del>			123	
	1	<del> </del>	1					123	
		<del> </del>	1	<del>  ` </del>	t	1	1		
¥									
	Pseudevernia consocians Psudocyphellaria aurata Psudocyphellaria aurata Psudocyphellaria crocata Punctelia appalachensis Punctelia bolliana Punctelia missouriensis Punctelia rudecta Punctelia semansiana Punctelia semansiana Punctelia subrudecta Pyxine caesiopruinosa Pyxine sorediata Ramalina americana Ramalina atenospora Ramalina willeyi Rimelia cetrata Rimelia diffractaica Rimelia simulans Rimelia simulans Rimelia subisidiosa Sticta weigelii Usnea aciculifera Usnea ceratina Usnea cornuta Usnea madeirensis Usnea madeirensis Usnea mutabilis Usnea rubicunda Usnea strigosa	Physcia aipolia 5702 Physcia americana 5704 Physcia crispa 5716 Physcia miltegrana 5716 Physcia neogaea 5718 Physcia stellaris 5723 Physciella chloantha 5723 Physciella chloantha 5723 Physciella chloantha 5723 Physciella chloantha 5723 Physciella chloantha 6106 Pseudevernia ctadonia 6301 Pseudevernia cadonia 6301 Pseudevernia consocians 6302 Psudocyphellaria aurata 782 Psudocyphellaria crocata 6404 Punctelia appalachensis 6701 Punctelia polliana 6702 Punctelia missouriensis 6705 Punctelia rudecta 6707 Punctelia semansiana 6708 Punctelia subrudecta 6711 Pyxine caesiopruinosa 6803 Pyxine sorediata 6808 Ramalina americana 6901 Ramalina stenospora 6932 Ramalina willeyi 6940 Rimelia cetrata 7101 Rimelia cetrata 7103 Rimelia reticulata 7104 Rimelia simulans 7105 Rimelia subisidiosa 7106 Sticta weigelii 7506 Usnea acculifera 8001 Usnea ceratina 8019 Usnea ceratina 8040 Usnea madeirensis 8047 Usnea madeirensis 8047 Usnea madeirensis 8050 Usnea madeirensis 8063 Usnea subscabrosa 8069 Usnea subscabrosa 8069 Usnea subscabrosa 8076 Xanthoria candelaria 8071 Vulpicida viridis 1020 Cladonia squamules only Crustose lichen	Physcia aipolia S702 Physcia americana S704 Physcia crispa Physcia crispa Physcia miliegrana S716 Physcia miliegrana S718 Physcia stellaris S723 Physciala chloantha Physconia detersa S901 Platismatia tuckermannii 6106 Pseudevernia cladonia 6301 Pseudevernia consocians 6302 Psudocyphellaria aurata Psudocyphellaria aurata Psudocyphellaria crocata 6404 Punctelia appalachensis 6701 Punctelia poliana 6702 Punctelia missouriensis 6705 Punctelia rudecta 6707 Punctelia semansiana 6708 Punctelia subrudecta 6711 Pyxine caesiopruinosa 6803 Pyxine sorediata 6808 Ramalina americana 6901 Ramalina stenospora 6932 Ramalina willeyi 6940 Rimelia cetrata 7101 Rimelia diffractaica 7103 Rimelia reticulata 7104 Rimelia simulans 7105 Rimelia subisidiosa 7106 Sticta weigelii 7506 Usnea aciculifera 8001 Usnea ceratina 8014 Usnea caratina 8019 Usnea materiensis 8047 Usnea materiensis 8047 Usnea mutabilis 8050 Usnea subfloridana 8054 Usnea subscobrosa 8063 Usnea subfloridana 8076 Kanthoria candelaria 8001 Vulpicida viridis 1020 Cladonia squamules only Crustose lichen	Physcia aipolia 5702 Physcia americana 5704 Physcia crispa 5704 Physcia crispa 5716 Physcia neogaea 5718 Physca neidegrana 5718 Physcia neogaea 5718 Physcia stellaris 5723 Physcial chloantha 5704 Physcial etersa 5718 Physconia detersa 5901 Platismatia tuckemannii 6106 Pseudevernia cadonia 6301 Pseudevernia consocians 6302 Psudocyphellaria aurata 5802 Psudocyphellaria aurata 6702 Psudocyphellaria crocata 6701 Punctelia appalachensis 6701 Punctelia appalachensis 6705 Punctelia rudecta 6707 Punctelia semansiana 6708 Punctelia semansiana 6708 Punctelia subrudecta 6711 Pyxine caesiopruinosa 6803 Pyxine sorediata 6808 Pyxine sorediata 6808 Ramalina americana 6901 Ramalina americana 6901 Rimelia cetrata 7101 Rimelia cetrata 7101 Rimelia cetrata 7104 Rimelia simulans 7105 Rimelia simulans 7105 Rimelia simulans 7105 Rimelia subisidiosa 7106 Sticta weigelii 7506 Usnea acculifera 8001 Usnea ceratina 8014 Usnea ceratina 8040 Usnea ceratina 8040 Usnea mutabilis 8050 Usnea nutabilis 8050 Usnea pubicunda 8063 Usnea subfloridana 8072 Usnea subfloridana 8072 Usnea subfloridana 8072 Usnea subfloridana 8072 Usnea subscabrosa 8076 Xanthoria candelaria 7020 Cladonia squamules only 77 Crustose lichen 77 Crustose	Physica aipolia   S702   123	Physcia applia 5702 12.3 Physcia americana 5704 12.3 Physcia crispa 12.3 Physcia meirgana 5716 12.3 Physcia milegrana 5716 12.3 Physcia milegrana 5718 12.3 Physcia neogaea 5718 12.3 Physciellaris 5723 12.3 Physciellaris 5723 12.3 Physciellaris 5723 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 12.3 Physciellaris 22.3 Pseudevernia consocians 6301 12.3 Pseudevernia consocians 6302 12.3 Pseudevernia consocians 6302 12.3 Pseudevernia consocians 6302 12.3 Pseudevernia consocians 6701 12.3 Pseudevernia consocians 6702 12.3 Punctelia politicalis 6702 12.3 Punctelia indeliaria 12.3 Punctelia indeliaria 6702 12.3 Punctelia missouriensis 6705 12.3 Punctelia rudecta 6707	Physica appolia         \$702         1.2.3         1.2.3           Physica americana         \$704         1.2.3         1.2.3           Physica crispa         1.2.3         1.2.3         1.2.3           Physica milegrana         \$716         1.2.3         1.2.3         1.2.3           Physica selerias         \$718         1.2.3         1.2.3         1.2.3           Physica selerias         \$723         1.2.3         1.2.3         1.2.3           Physica full colorate         \$901         1.2.3         1.2.3         1.2.3           Physical colorate         \$901         1.2.3         1.2.3         1.2.3           Physical colorate         \$901         1.2.3         1.2.3         1.2.3           Physical colorate         \$901         1.2.3         1.2.3         1.2.3           Physical colorate         \$601         1.2.3         1.2.3         1.2.3           Plusical colorate         \$6302         1.2.3         1.2.3         1.2.3           Psudocyphellaria aurata         \$902         1.2.3         1.2.3         1.2.3           Punctelia sepalachensis         \$6701         1.2.3         1.2.3         1.2.3           Punctelia bolkana         \$6702	Physica aipoila	Physica algolia 5702

Lichen Communities PLOT PACKING SLIP FHM, 1994  P. ne Min. Road/opessum Cc	
Plot hex number: #2 State: VA County: Crayson	
Date: 15 July 94 Crew Member's Name: 5. Powers Crew number: 1	
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY!	
Record the time lichen sampling began: Record the time lichen sampling ended:  Total time spent sampling the plot:    130 pm	
Comments about the plot, the lichens, the vegetation, and/or the weather:  Weather: Party Clarky - Light Conditions range from bright surshing to heavy overcast:	,
REMEMBER:  Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.  The plot contained abundance abundance code on each bag!  lichens, but does not app  be voy divose. Dry  Try to put only one species in each bag.	at cor

## Lichens of Mt. Rogers National Recreation Area

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 2 Elevation 3,880 ft

Pine Mountain Road (FS Road 613) approx. 800 ft north
of junction with Highland Trail (No. 337), along
Opossum Creek S of VA Route 603 W of Troutdale. Site
is approximately 2.7 miles W/SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 15, 1994

No. 2-

Identified by Jonathan P. Day Herbarium of Jefferson National Forest, Virginia

not pople.	50
------------	----

Lichen Identification Data Sheet Jefferson National Forest --1994

Date: Collector

Mt. Rogers National Recreation Area Plot. No. \_\_\_\_\_\_\_\_
tate: Virginia
County: \_\_\_\_\_\_\_

ala. 5540'

Lichen Specialist

		Data to	enter							
	Species name	Sp. code	Abund	Bag #	Α	Bag #	Α	Bag #	Α	Comments
	Anaptychia palmulata	301			123		123		123	
[	Anzia copodes	402			123		123		123	
	Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123	·····	123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria : fendieri	1008	<u> </u>		123		123		123	
	Cetraria . oakesiana	1012	4	فرنی	12.3	4.5	1(2).3	26	12.3	21(12)
	Cetraria orbata	1013	<del>/</del>		123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
<u> </u>		1102	J	LÝ	12(3)	· · · · · · · · · · · · · · · · · · ·	123		123	
-	Cetrelia chicitae	1104		<u> </u>	123		123		123	
	Cetrelia olivetorum	1203	<b></b>		123	,,, <u>- ,, - ,, - , - , - , - , - , - , -</u>	123		123	
	Cladonia bacillaris	1203	<u> </u>		123		123		123	
	Cladonia caespiticia		<del>,</del>		1263		123	<del> </del>	123	merchlosophera
<u> </u>	Cladonic Mercelluseles		ᅮ	15	1,23	J	1.02.3	<b></b>	123	
44	Cladonia coniocraea	1211		/3	123		123	<u> </u>	123	
	Cladonia cristatella	1212	<u> </u>	<u> </u>			123		123	
	Cladonia cylindrica	1214	ļ		123		123		123	
	Cladonia didyma	1243		<b> </b>	123		123		123	
	Cladonia floerkeana		<del></del>		123		123		123	
	Cladonia macilenta	1225	7		12(3)		123		123	<del> </del>
	Cladonia mateocyatha	1245	<u> </u>	<b> </b>	123	36	12.3	6	120	
6	Cladonia ochrochlora	1228	\ <u>\</u>	35	12(3)	36		<u> </u>	123	
	Cladonia parasitica	1229	<b></b>	<b> </b>	123		123	<del> </del>		
	Cladonia peziziformis	1242	<u> </u>	<b> </b>	123		123	ļ	123	
	Cladonia ramulosa(pityrea)	1234		<b></b>	123		123	<b></b>	123	
	Cladonia ravenelli	1		<b>]</b>	123		123	<b> </b>	123	
	Cladonia simulata	1246	<u> </u>	<u> </u>	123		123	<u> </u>	123	12 (2) 11(3) 34/4
7	Cladonia squamosa	1236	<i>y</i> -	28	12(3)	2.5	12(3)	15	100	12 (2) 11(1) 344
	Cladonia subradiata			]	123		123		123	
	Cladonia vulcanica		<u> </u>	1	123		123		123	
	Coccocarpia erthroxyli	1303		<u> </u>	123		123		123	
	Coccocarpia palmicola	1304		<b>A</b>	123		123	<u> </u>	1.,23	
	Collema conglomeratum	4		#	123		123		123	
	Collema nigrescens	1412			123		123		123	
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501		l l	123		123		123	
	Fiavoparmelia caperata	2601			123		123	<u> </u>	123	
-	Flavopunctelia flaventior	2702		1	123		123		1.,2.,3	
	Heteroderm, appalachensis	2802	İ		123		123		123	
<b> </b>	Heterodermia casarettiana		<u> </u>		123		123		123	
	Heterodermia crocea	2806			123		123		123	
	Heterodermia granulifera	2812	<del>                                     </del>	1	123		123		123	
	Heteroderma granumaa	2813	<del> </del>	1	123		123		123	
<b> </b>	Heterodermia hypoleuca	2814		<b>†</b>	123		123		1.,2.,3	
	Heterodermia leucomelos	2014	<del> </del>	1	123	<b></b>	123		123	
	Heterodermia microphylla	2016	<del>                                     </del>	<b> </b>	123	<b></b>	123		123	
	Heterodermia obscurata	2816	<del> </del>	<del> </del>		<del> </del>	123	<u> </u>	123	
	Heterodermia speciosa	2822	-	<b> </b>	123	<del> </del>	123	<del>                                       </del>	123	
	Heterodermia squamulosa	2823	-	<b> </b>	123	<del> </del>	123	<del> </del>	123	
l	Hyperphyscia adglutinata	2901	<u> </u>	<del> </del>	123			<del> </del>	123	
	Hyperphyscia syncolla	<b></b>	<u> </u>	<b></b>	123	<del></del>	123		123	
1	Hypogymnia krogiae	3110	<i>y</i>	<u> </u>	12(.3)		12(3)	<u> </u>	123	
a	Hypogymnia physodes	3116	14	200	123	18	23123	I	1 1	

ML PLOT I 19 day 54

·							<u> </u>			T - A
1		Data to	enter			0 4	<del></del>	0 4		
ا_	Species name	Sp. code	Abund.	Bag #	<u> </u>	Bag #	<u> </u>	Bag#	A	Comments
ر	Hypotrac. croceopustulata	3201	1		1(2.)3		123		123	
	Hypotrac. gondylophora	3205			123		123		123	
	Hypotrachyna livida	3208	<u> </u>		123		123		123	
	Hypotrachyna novella	<u> </u>	<u></u>		123		123		1.,2.,3	
	Hypotrachyna osseoalba	3210			123		123		123	
	Hyptrachyna pustulifera	3215			123		123		123	
	Hypotrachyna revoluta	3216	<u> </u>		123		123		123	
	Hypotrachyna showmanii	3218			123		123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	lmshaugia aleurites	3301			123		123		123	
	Imshaugia placorodia	3302			123		123		123	
	Lept. austroamericana				123		123		123	
	Leptogium corticola	3609			123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum				123		123		123	
	Lobaria pulmonaria	3905			123		123		123	
	Lobaria quercizans	3906			123		123		123	
$\vdash \vdash \vdash$	Lobaria ravenelii				123		123		123	
$\vdash \vdash \vdash$	Melanelia halei	4008			123		123		123	
H	Melanelia subaurifera	4015	]		123		123		123	
$\vdash \vdash \vdash$	Menegazzia terebrata	4101			123		123		123	
$\vdash \vdash \vdash$	Myelochroa aurulenta	4201			1.,23		123		123	
<del>  </del>	Melochroa galbina	4202			123		123		123	
$\vdash$	Myelochroa metarevoluta	4203	-		123		123		123	
$\vdash$	Nephroma helveticum	4403	<u> </u>	l	123		123		123	
	Pannaria leucophaea	4703	<u> </u>	l	123		123		123	
	Pannaria leucosticta	4704	<u> </u>	l	123		123		123	
L		4711	<b></b>	<b>k</b>	123		123		123	
	Pannaria rubiginosa	4713		1	123		123		123	
	Pannaria tavaresii	4805		<b> </b>	123		123		123	
<u> </u>	Parmelia squarrosa	4806	<b></b>	<b> </b>	123		123		123	
	Parmelia sulcata	4902	<del> </del>	<u> </u>	123		123		123	
<u> </u>	Parmellella corallinoides	4904	<del> </del>	<b> </b>	123		123		123	
<u> </u>	Parmeliella tryptophylla	5101	<del>,</del>	24	e123	2.7	12(3)	16	12(3)	14(3) 9(3)
$ \mathcal{L} $	Parmelinopsis horrescens	5102	<u> </u>	<u> </u>	123	<u></u>	123	782	123	
ļ	Parmelinopsis minarum				123		123		123	
<u> </u>	Parmelinopsis spumosa	5104	ļ	<u> </u>	123		123		123	
ļ	Parmeliopsis hyperopta	5202	<u> </u>	<b>}</b>			123		123	
	Parmotrema arnoldii	5301	<u> </u>	<b>[</b>	123		123		123	
	Parmotrema austrosinese	5302	<del> </del>	<u> </u>			123		123	
/4	Parmotrema crinitum	5305	<u> </u>	12	1,22,3				123	
	Parmotrema eurysacum	5310	<u> </u>	<b>}</b>	123	<u> </u>	123			
$\square$	Parmotrema of gardneri	5328	<u> </u>	<b></b>	123		123		123	
	Parmotrema hypotropum	5314	<u> </u>	<del> </del>	123		123		123	
	Parmotrema margaritatum	5318	<u> </u>	<b>4</b>	123		123			
╙	Parmotrema mellissii	5319	<b>]</b>	<b>]</b>	123		123		123	
	Parmotrema michauxianum		<u> </u>	<b> </b>	123		123	<u></u>	123	
	Parmotrema perforatum	5323	<u> </u>	<b> </b>	123		123		123	
	Parmotrema periata	5303		<b> </b>	1 -		123		123	
	Parmotr. praesorediosum	5324		]	123		123		123	
	Parmotrema rampoddense	5326		<b> </b>	123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
М	Parmotrema subsumptum		<u> </u>		123		123		123	
	Parmotrema tinctorum	5333			123		123		123	
	Parmotrema ultralucens	5334			123		123		123	
<b>-</b>	Parmotrema xanthinum	5335			123		123		123	
$\exists$	Phaeophyscia adiastola	5601		I .	123		123		123	
	Phaeophyscia ciliata	5603		1	123		123		123	
$\vdash$	Phaeophys. erythrocardia	5604			123		123		123	
<b>-</b>	Phaeophyscia pusilloides	5613			123		123		123	
_	Phaeophyscia rubropulchra		1		123		123		123	
	LINGCODITIONS LANGONICHE			والمستوي والمستوالين		La constante de la constante de la constante de la constante de la constante de la constante de la constante d				

MR PLOT 19 Suly 9 p

		Data to	enter							
	Species name	Sp. code	Abund	8ag #	A	Bag #	А	Bag #	Α	Comments
_	Physcia aipolia	5702			123		123		1.,2.,3	
	Physcia americana	5704			123		123		123	
	Physcia crispa				123		123		123	
	Physica millegrana	5716			123		123		123	
	Physica neogaea	5718			123		123		123	
	Physcia stellaris	5723			123		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901			123		123		123	
12	Platismatia tuckermannii	6106	1	20	(1,23		123		123	
14	Pseudevernia cladonia	6301	4	13	£123	ک	1(2).3	4	12(3)	10
-/-	Pseudevernia consocians	6302			123		123		123	
	Psudocyphellaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			123		1.,23		123	
	Punctelia bolliana	6702			123		123		123	<u> </u>
	Punctelia missouriensis	6705			123		123		123	
	Punctelia rudecta	6707			123		123		123	
	Punctelia semansiana	6708			123		123		123	<u> </u>
	Punctelia subrudecta	6711			123		123		123	
	Pyxine caesiopruinosa	6803			123		123		123	<u> </u>
	Pyxine sorediata	6808			123		123		123	
	Ramalina americana	6901			123		123		123	
	Ramalina stenospora	6932			123		123		123	
	Ramalina willeyi	6940			123		123		123	
	Rimelia cetrata	7101			123		123		123	
	Rimelia diffractaica	7103			123		123		123	
	Rimelia reticulata	7104			123		123		123	
	Rimelia simulans	7105			123		123		123	
	Rimella subisidiosa	7106	1		123		123		123	
-	Sticta weigelii	7506		<b> </b>	123		123		123	
<b></b>	Usnea aciculifera	8001			1,.23		123		123	
$\vdash$	Usnea ceratina	8014			123		123		123	
15	Usnea cornuta	8019	2	27	1.22.3		123		123	
۲٠,	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040			123		123		123	
	Usnea madeirensis	8047			123		123		123	
	Usnea mutabilis	8050			123		123		123	
	Usnea occidentalis	8054		1	123		123		123	
$\vdash \vdash$	Usnes rubicunda	8063		1	123		123		123	
Н	Usnez strigosa	8069			123		123		123	
16	Usnea subfloridana	8072	7	34	12(3)		123		123	
<u> </u>	Usnea subscabrosa	8076		<b>K</b>	123		123		123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020			123		123		123	
17		8018	ん	12	1.23		123		123	
<del>  </del>					123		123		123	
				N .	123		123		123	
		1			123		123		123	
				1	123		123		123	
					123		123		123	
	Cladonia squamules only			li Till	123		123		123	squamules only-exclude
	Crustose lichen				123		123		123	crustose forms-exclude
-	bryophyte	1		1	123		123		123	bryophyte-exclude
	31 7 3 5 11 1 CO	1			123		123		123	
		1		1	123		123		123	
_		1		1	123	[	123		123	
<del>                                     </del>		1	<u> </u>	1		<u> </u>				
				1						
-		A	سيح جيسا	X		Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Co				

Lichen Communities PLOT PACKING SLIP FHM, 1994
Mount Rogers Summit  Plot hex number: #3 State: VA County: Grayson  T. Blevins
Date: July 17, 1994 Crew Member's Name: S. Powers Crew number: 1
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY!
Record the time lichen sampling began:  Record the time lichen sampling ended:  Total time spent sampling the plot:    11:34
Comments about the plot, the lichens, the vegetation, and/or the weather:  Spring/Fir Forest Type Very open overstory due to Fir mortality  Mesulting in a Very dense spring/Fir understory with numerous channel and dead trees. Weather was partly Sunny. Lots of lichens! High abundance REMEMBER:  Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.  To end q line.

### Lichens of Mt. Rogers National Recreation Area

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 3 Elevation 5,540 ft
Mount Rogers, 1,200 ft E/SE of summit, on Mt. Rogers
Spur Trail (No.4590) in the Lewis Fork Wilderness
Area. Spruce/fir forest area. Site is approximately
6.5 miles west/southwest of Troutdale.

No. 3-

Collected by Tom Blevins & Susan Powers July 19, 1994

Identified by Jonathan P. Dey Herbarium of Jefferson National Forest, Virginia

# Pire Inta & Cabin Ridge Thomas Koulo . NOTh

Lichen Identification Data Sheet Jefferson National Forest --1994

Mt. Rogers National Recreation Area Plot. No. 4

Collector

They 3,1

itate: Virginia
County: Suysen

Elas. 5140'

Lichen Specialist

J. Dey

		Data to	enter							
	Species name	Sp. code	Abund.	Bag #	A	Bag #	A	Bag #	Α	Comments
-	Anaptychia palmulata	301	1		123		123		123	
	Anzia copodes	402			123		123		123	
<b> </b>	Bryoria bicolor	602			123		123		123	
-	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
-	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria . fendleri	1008			123		123		123	
1	Cetraria . oakesiana	1012	4	29	<u>123</u>	2,50	123	23	12.(3)	18(1) 5(2) 11
1	Cetraria orbata	1013	- 人	22	1.(2).3		123	ļ	123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
3	Cladonia bacillaris	1203	<u> </u>	7_	23. الأع		123	<b></b>	123	
	Cladonia caespiticia	1207		<u></u>	123		123	<u> </u>	1,.23	
	Cladonia chlorophaea s.i.	1210		<b> </b>	123		123		123	
	Cladonia coniocraea	1211			123		123		123	
	Cladonia cristatella	1212			123		123	ļ	123	
	Cladonia cylindrica	1214			123		123	<u> </u>	123	
	Cladonia didyma	1243	<u> </u>		123		123	<u> </u>	123	
	Cladonia floerkeana	<u> </u>		<b></b>	123	<u> </u>	123	<del></del>	123	
1	Cladonia macilenta	1225		<u> </u>	123		123		123	
-	Cladonia mateocyatha	1245			123		123	<u> </u>	123	
i 4	Cladonia ochrochlora	1228	٨.	27	1.(2.)3	7	1.22.3		123	
	Cladonia parasitica	1229		ļ	123		123		123	
	Cladonia peziziformis	1242	<u> </u>	ļ	123		123		123	
	Cladonia ramulosa(pityrea)	1234	<u> </u>		123		123	<u> </u>	123	
	Cladonia ravenelii			<b>!</b>	123	ļ	123	<del></del>	123	
	Cladonia simulata	1246			123	<del>                                     </del>	123		123	
5	Cladonia squamosa	1236	.J	21	12.3	<u> </u>	12(3)			
	Cladonia subradiata	<b></b>	1	<u> </u>	123		123	<b></b>	123	
	Cladonia vulcanica		ļ	<u> </u>	123		123		123	
	Coccocarpia erthroxyli	1303	ļ	<b></b>	123	<u> </u>	123		1.,2.,3	
	Coccocarpia palmicola	1304	ļ	<b> </b>	123		123		123	
<u> </u>	Collema conglomeratum				123	<u> </u>	123		123	
<u> </u>	Collema nigrescens	1412			123	<u> </u>	123		123	
	Collema subflaccidum	1415		<b></b>	123	<u> </u>	123		123	
<u></u>	Everniastrum catawbiense	2501		<u> </u>	123	<del>                                     </del>	12.3		123	
6	Flavoparmelia caperata	2601	<u> </u>	15 9			123	) 	123	
<u></u>	Flavopunctelia flaventior	2702	<b></b>	<b> </b>	123		123		123	
<u> </u>	Heteroderm, appalachensis	2802	<b></b>	ļ	123	<b></b>	123		123	
<u> </u>	Heterodermia casarettiana		<del> </del>	ļ	123	<del> </del>			123	
<u></u>	Heterodermia crocea	2806	<b></b>	<b> </b>	123	<del> </del>	123	<u> </u>	123	
	Heterodermia granulifera	2812	<del> </del>	<b> </b>	123	<del> </del>	123	<del>                                     </del>	123	
	Heterodermia hypoleuca	2813	<b>↓</b>	<b>4</b>	123	<del> </del>	123	+	123	
	Heterodermia leucomelos	2814	<b> </b>	<b>}</b>	123	<del>                                     </del>	123	<del> </del>	123	
<u> </u>	Heterodermia microphylla	<b></b>	<del> </del>	<u></u>	123	<del> </del>	123	<del> </del>	123	
	Heterodermia obscurata	2816	<b></b>	<b> </b>	123	<del> </del>	123	<del> </del>	123	
	Heterodermia speciosa	2822	-	<b> </b>	123	<del>}</del>	123	<del> </del>	123	
	Heterodermia squamulosa	2823	<del> </del>	<del> </del>	123	<del> </del>	123	<del> </del>	123	
4	Hyperphyscia adglutinata	2901	<del> </del>	<del> </del>	123	+	123	1	123	
	Hyperphyscia syncolia	<u> </u>	<del> </del>	<b>{</b>	123	<del> </del>	123	<del>                                     </del>	123	
1	Hypogymnia krogiae	3110	- 3	<del>                                     </del>	123	24	1,223	20	1,,263	90 11 (3)
117	Hypogymnia physodes	3116	لان	1	123	<u> </u>				

Atlegen 44 19 dely 84

Species name					(						
Pepperse desconsulata   3201	-		Data to	enter	04		900 #		Don #	A	Common to
Hypotracy all voids   1,2,3					Bag #		Day #		OAY#		conners
1.2.3   1.2.	2	Hypotrac. croceopustulata		اي							
Proportacifyon newells   1,2,3   1,2		Hypotrac. gondylophora									
Hypotrachysis assessible   32:10   1.2.3   1		Hypotrachyna livida	3208	<u> </u>							
Depart continues   1.2.3   1											
Pypotzerbyna Involuta   2216   1,2,3		Hypotrachyna osseoaiba									
Depotite/pris showmani   32:19		Hyptrachyna pustulifera									
Hypotractyms thysanota   3220   1.2.3   1.2.		Hypotrachyna revoluta								<del>,,,,,,</del>	
Installage placeroids   3901   1.2.3		Hypotrachyna showmanii									
Incitionage   Jacobies   3302   1.2.3   1.2.		Hypotrachyna thysanota					·····				
Institution   Institution		lmshaugia aleurites	3301								
Lept. austroamericana			3302		<u> </u>						
Leptogum corticola   3609   1.2.3   1.2.3   1.2.3   1.2.3     Leptogum laceroides   3624   1.2.3   1.2.3   1.2.3   1.2.3     Leptogum laceroides   3624   1.2.3   1.2.3   1.2.3   1.2.3     Leptogum laceroides   3624   1.2.3   1.2.3   1.2.3   1.2.3     Lobaria gudmonaria   3905   1.2.3   1.2.3   1.2.3     Lobaria gudmonaria   3905   1.2.3   1.2.3   1.2.3     Lobaria gudmonaria   3905   1.2.3   1.2.3   1.2.3     Lobaria gudmonaria   3905   1.2.3   1.2.3   1.2.3     Lobaria gudmonaria   4008   1.2.3   1.2.3   1.2.3     Mesnetia subaurifera   4019   1.2.3   1.2.3   1.2.3     Mesnetia subaurifera   4019   1.2.3   1.2.3   1.2.3     Menengizzia terebrata   4101   1.2.3   1.2.3   1.2.3     Menegazzia terebrata   4201   1.2.3   1.2.3   1.2.3     Mejecorora aurulenta   4201   1.2.3   1.2.3   1.2.3     Mejecorora aurulenta   4202   1.2.3   1.2.3   1.2.3     Mejecorora metarevoluta   4203   1.2.3   1.2.3   1.2.3     Mejecorora metarevoluta   4203   1.2.3   1.2.3   1.2.3     Negeorora metarevoluta   4203   1.2.3   1.2.3   1.2.3     Pannaria teucosticta   4703   1.2.3   1.2.3   1.2.3   1.2.3     Pannaria teucosticta   4704   1.2.3   1.2.3   1.2.3   1.2.3     Pannaria sudiginosa   4711   1.2.3   1.2.3   1.2.3   1.2.3     Pannaria sudiginosa   4711   1.2.3   1.2.3   1.2.3   1.2.3     Pannaria sudiginosa   4905   7/4   1.2.3   1.2.3   1.2.3   1.2.3     Parmelia sudicata   4806   7/4   1.2.3   1.2.3   1.2.3   1.2.3     Parmelia sudicata   4806   7/4   1.2.3   1.2.3   1.2.3   1.2.3     Parmelia proposis horresceno   5101   7/2   7/4   7/2				<u> </u>	t			<del></del>			
Leptogum cyanescers   3611			3609		<u> </u>						
Leptogum laceroides   3624   1.2.3			3611			123					
Leptogum tereflusolum   1,2,3   1,2,			3624			123					
Lobaria pudmonaria   3905   1,2,3						123		123	<u> </u>		
Lobaris guerdizans			3905	1		123			<u> </u>	123	
Lobaria revenelii			3906			123					
Metanelia halei	1			Ţ				123			
Meianelia subaurifera         4015         1.2.3         1.2.3         1.2.3         1.2.3           Menegazita terebrata         4101         1.2.3         1.2.3         1.2.3         1.2.3           Melochros galbina         4201         1.2.3         1.2.3         1.2.3         1.2.3           Melochros galbina         4202         1.2.3         1.2.3         1.2.3         1.2.3           Myelochroa metarevoluta         4203         1.2.3         1.2.3         1.2.3         1.2.3           Nephroma helveticum         4403         1.2.3         1.2.3         1.2.3         1.2.3           Pannaria leucophase         4703         1.2.3         1.2.3         1.2.3         1.2.3           Pannaria leucophase         4703         1.2.3         1.2.3         1.2.3         1.2.3           Pannaria leucophase         4704         1.2.3         1.2.3         1.2.3         1.2.3           Pannaria leucophase         4713         1.2.3         1.2.3         1.2.3         1.2.3           Panmelia suparrosa         4805         7         1.2.2         1.2.3         1.2.3         1.2.3           Parmelia suparrosa         4806         7         1.2.3         1.2.3         1.2.3 <td></td> <td></td> <td>4008</td> <td>1</td> <td></td> <td>123</td> <td></td> <td>123</td> <td></td> <td>123</td> <td></td>			4008	1		123		123		123	
Menegazzia terebrata   4101   1,2,3   1,2,3   1,2,3   1,2,3   Mejochroa aurulenta   4201   1,2,3   1,2,3   1,2,3   1,2,3   Mejochroa gabina   4202   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   Mejochroa metarevoluta   4203   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   1,2,3   Mejochroa metarevoluta   4403   1,2,3	╟─┤				1					123	
Nyelochroa aurulenta	$\vdash$			Ì						123	
Neptochroa galbina   4202   1,2,3	╟─┤									123	
Myelochroa metarevoluta	<b> </b>				1						
Nephroma helveticum					1						
Pannaria leucophiaea	<del>  </del>		( <u> </u>	<del> </del>							
Pannaria leucosticta   4704   123   123   123   123     Pannaria rubiginosa   4711   123   123   123   123     Pannaria rubiginosa   4711   123   123   123   123     Pannaria tavaresii   4713   123   123   123   123     Parmelia squarrosa   4805   1   1   123   123   123     Parmelia squarrosa   4806				<del> </del>							
Pannaria rubiginosa   4711   1.2.3   1.2.3   1.2.3   1.2.3   1.2.3   Pannaria rubiginosa   4713   1.2.2   3   1.2.3	<b> </b>			<del> </del>	1						
Pannaria tavaresii         4713         123         123         123           Parmelia squarrosa         4806         √         // 123         123         123           ¶ Parmelia squarrosa         4806         √         // 12	1		<u> </u>	<del> </del>				<del></del>			
Parmeila sulartosa    Parmeila sularta   4806	_			<del> </del>	<b>1</b>						1.000-200-20-20-20-20-20-20-20-20-20-20-20
Parmelia sulcata			<u> </u>		<b>├</b> - ──						
Parmeliella coralinoides	1			<del> </del>	-,,,						
Parmeliella tryptophylla	1			<u> </u>	<del></del>				<del> </del>		
Parmetinopsis horrescens   S101   \$\frac{3}{2}\$   1.2\frac{3}{3}\$   1.2\frac{3}{3}				<del> </del>	<b></b>				<del> </del>		
Parmeliopsis ininarum					1 38		7		4		
Parmetinopsis Infinite	10			<del>  </del>	27_				<del>                                     </del>		
Parmetinopsis hyperopta   5202   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema arnoldii   5301   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema austrosinese   5302   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema austrosinese   5302   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema crinitum   5305   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema crinitum   5305   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema crinitum   5310   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema hypotropum   5314   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema hypotropum   5314   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema margaritatum   5318   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema mellissii   5319   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema michauxianum   5320   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema perforatum   5323   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema perforatum   5323   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema perlata   5303   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema rampoddense   5326   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema rigidum   5327   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema subsumptum   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema subtinctorum   5331   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema subtinctorum   5333   1.2.3   1.2.3   1.2.3       Parmotrema subtinctorum   5333   1.2.3   1.2.3   1.2.3       Parmotrema tinctorum   5335   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema vibrinctorum   5335   1.2.3				<u> </u>	<b> </b>		<b></b>		16		4
Parmotrema arnoldi   5301   1.23   1.23   1.23   1.23       Parmotrema arnoldi   5301   1.23   1.23   1.23   1.23       Parmotrema austrosinese   5302   1.23   1.23   1.23   1.23       Parmotrema crinitum   5305   1.23   1.23   1.23   1.23       Parmotrema crinitum   5310   1.23   1.23   1.23   1.23       Parmotrema eurysacum   5310   1.23   1.23   1.23   1.23       Parmotrema eurysacum   5328   1.23   1.23   1.23   1.23       Parmotrema hypotropum   5314   1.23   1.23   1.23   1.23       Parmotrema margaritatum   5318   1.23   1.23   1.23   1.23       Parmotrema mellissii   5319   1.23   1.23   1.23   1.23       Parmotrema michauxianum   5320   1.23   1.23   1.23   1.23       Parmotrema perforatum   5323   1.23   1.23   1.23   1.23       Parmotrema perforatum   5323   1.23   1.23   1.23   1.23       Parmotrema perforatum   5324   1.23   1.23   1.23   1.23       Parmotrema rampoddense   5326   1.23   1.23   1.23   1.23       Parmotrema rigidum   5327   1.23   1.23   1.23   1.23       Parmotrema subtinctorum   5331   1.23   1.23   1.23       Parmotrema subtinctorum   5331   1.23   1.23   1.23       Parmotrema inctorum   5333   1.23   1.23   1.23       Parmotrema uitralucens   5334   1.23   1.23   1.23       Parmotrema vanthinum   5335   1.23   1.23   1.23       Parmotrema vanthinum   5335   1.23   1.23   1.23       Phaeophyscia adiastola   5601   1.23   1.23   1.23   1.23       Phaeophyscia pusilloides   5613   1.23   1.23   1.23   1.23       Phaeophyscia pusilloides   5613   1.23   1.23   1.23   1.23       Phaeophyscia pusilloides   5613   1.23   1.23   1.23   1.23       Phaeophyscia pusilloides   5613   1.23   1.23   1.23   1.23       Phaeophyscia pusilloides   5613   1.23   1.23   1.23       Parmotrema controlled   5004   1.23   1.23   1.23       Parmo	11			"	16		a	·			
Parmotrema austrosinese   5302   1.23   1.23   1.23     Parmotrema crinitum   5305   1.23   1.23   1.23   1.23     Parmotrema crinitum   5305   1.23   1.23   1.23   1.23     Parmotrema eurysacum   5310   1.23   1.23   1.23   1.23     Parmotrema crinitum   5328   1.23   1.23   1.23   1.23     Parmotrema hypotropum   5314   1.23   1.23   1.23   1.23     Parmotrema hypotropum   5314   1.23   1.23   1.23   1.23     Parmotrema mergaritatum   5318   1.23   1.23   1.23   1.23     Parmotrema mellissii   5319   1.23   1.23   1.23   1.23     Parmotrema michauxianum   5320   1.23   1.23   1.23   1.23     Parmotrema perforatum   5323   1.23   1.23   1.23   1.23     Parmotrema perforatum   5323   1.23   1.23   1.23     Parmotrema perfata   5303   1.23   1.23   1.23   1.23     Parmotrema rampoddense   5324   1.23   1.23   1.23   1.23     Parmotrema rampoddense   5326   1.23   1.23   1.23   1.23     Parmotrema rampoddense   5326   1.23   1.23   1.23   1.23     Parmotrema subtinctorum   5331   1.23   1.23   1.23     Parmotrema subtinctorum   5331   1.23   1.23   1.23     Parmotrema subtinctorum   5333   1.23   1.23   1.23     Parmotrema utralucens   5334   1.23   1.23   1.23     Parmotrema xanthinum   5335   1.23   1.23   1.23     Parmotrema xanthinum   5335   1.23   1.23   1.23     Phaeophyscia cliata   5603   1.23   1.23   1.23     Phaeophyscia pusiliodes   5613   1.23   1.23   1.23     Phaeophyscia pusiliodes   5613   1.23   1.23   1.23				<del> </del>	<b>!</b>						
Parmotrema crinitum   S305   1.23			4 <del></del>	<u> </u>	<b> </b>						
Parmotrema curysacum   5310   1.23		Parmotrema austrosinese		<u> </u>	ļ				<u> </u>		
Parmotrema eurysacum   5310   1.23		Parmotrema crinitum		<u> </u>	1		<u> </u>		<del> </del>		
Parmotrema tryotropum   S314   1.23		Parmotrema eurysacum	()	<u> </u>	<b></b>	_					
Parmotrema hypotropum   5314   1.2.3				<u> </u>	1				<u> </u>		
Parmotrema margaritatum   5318   1.23   1.2.			5314		<b></b>	-	<u> </u>				
Parmotrema mellissii   5319   1.23			5318								
Parmotrema michauxianum   5320   123   1					1						
Parmotrema perforatum   5323   1.23			5320								
Parmotrema perlata   5303   123   123   123   123								<del></del>	<u> </u>	<u></u>	
Parmotr. praesorediosum         5324         123         123         123         123           Parmotrema rampoddense         5326         123         123         123         123           Parmotrema rigidum         5327         123         123         123         123           Parmotrema stuppeum         5329         123         123         123         123           Parmotrema subtinctorum         5331         123         123         123         123           Parmotrema subsumptum         123         123         123         123         123           Parmotrema tinctorum         5333         123         123         123         123           Parmotrema uitralucens         5334         123         123         123         123           Phaeophyscia adiastola         5601         123         123         123         123           Phaeophysica ciliata         5603         123         123         123         123           Phaeophysica pusilloides         5613         123         123         123         123	1		5303			123			<u> </u>		
Parmotrema rampoddense   5326   123   123   123   123	-			1				123			
Parmotrema rigidum   5327   123   123   123   123	-			1				123			
Parmotrema stuppeum   5329   1.2.3   1.2.3   1.2.3	-	<u> </u>		1				123			
Parmotrema subtinctorum   5331   1.23   1.23   1.23	<b> </b>			<b>†</b>	1			<del></del>		123	
Parmotrema subtrictorum	-			1	1		1				
Parmotrema substitution	-	A CONTRACTOR OF THE PROPERTY O	1	<del>                                     </del>	1						
Parmotrema unctorum   3333   123   123   123	-		5222	<del>                                     </del>	1			-			
Parmotrema utdiatectris   3337   1.23   1.23   1.23				<del>                                     </del>	1						
Phaeophyscia adiastola   S601   123   123   123       Phaeophyscia ciliata   S603   123   123   123       Phaeophys. erythrocardia   S604   123   123   123   123       Phaeophyscia pusilloides   S613   123   123   123   123       Phaeophyscia pusilloides   S613   123   123   123   123	<b> </b>	Parmotrema ultralucens		<del> </del>	1		1				
Phaeophysica adiastola   3601   123   123   123     Phaeophysica ciliata   5603   123   123   123   123     Phaeophys. erythrocardia   5604   123   123   123   123     Phaeophysica pusilloides   5613   123   123   123   123     123				<del> </del>	1		<del>                                     </del>		1		
Phaeophysical citata	_		-4		<b></b>		<del> </del>				
Phaeophysia pusilloides 5613 123 123 123	11			<del> </del>	-				<del> </del>		
Phaeophysida pusikoides   3615   1				<del> </del>	1		-		<del> </del>		
Phaeophysia rubropulchra 5614 1 123 123 123				<del> </del>	<del></del>		<del> </del>		<del> </del>		
		Phaeophyscia rubropulchra	5614		1	123	<u> L</u>	] ]23	1	1 163	

1		Data to	enter							
<del></del>	ecies name	Sp. code	Abund.	Bag #	Α	Bag #	A	8ag #	Α	Comments
Physcia	The second secon	5702	,		123		123		123	
	americana	5704	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		123		123		123	
Physcia					123		123		123	
	millegrana	5716			123		123		123	
Physcia n		5718			123		123		123	
Physcia		5723			123	· · · · · · · · · · · · · · · · · · ·	123		123	
	a chloantha				123		123		123	
	a detersa	5901			123		123		123	
	tia tuckermannii	6106	7	11	1.02.3		123		123	
) Pseudeve	ernia ctadonia	6301	+	So	12(3)	4	12(3)	26	1)23	د(4)
Pseudeve	ernia consocians	6302			123		123		123	
	ohellaria aurata	<u></u>		<b>!</b>	123		123		123	
Psudocy	ohellaria crocata	6404		<b> </b>	123		123		123	
Punctelia	appalachensis	6701		<b> </b>	123		123		123	
Punctelia		6702		<b> </b>	123		123		123	
Punctelia	missouriensis	6705		<b></b>	1.,2.,3		123		123	
Punctelia		6707	<u> </u>	<b>}</b>	123	<del></del>	123		123	
	ı semansiana	6708	-	<del> </del>	123	17	123		123	
✓ Punctelia		6711	J	42	12.3				123	
	a esi opruinosa	6803		<b> </b>	123		123		123	
Pyxine s	orediata	6808	ļ	<b></b>	123		123			
Ramalina	americana	6901			123		123		123	
Ramalina	stenospora	6932		<b></b>	123		123		123	
Ramalina	willeyi	6940	ļ	<u> </u>	123		123		123	
Rimelia (	cetrata	7101		<b></b>	123		123		123	
Rimelia	diffractaica	7103		ļ	123		123		123	
Rimelia I	reticulata	7104			123	<u> </u>	123		123	
Rimelia	simulans	7105		<u> </u>	123		123	<u> </u>	123	
Rimella :	subisidiosa	7106			123	<u> </u>	123		123	
Sticta w	reigelii	7506		<u> </u>	123	ļ	123		123	
Usnea a	doulifera	8001		<b>!</b>	123	<del> </del>	123		123	
Usnea ce	eratina	8014		<u> </u>	123	<u> </u>	123	ļ	123	
Usnea co	ornuta	8019		<u> </u>	123	<u> </u>	123	<u> </u>	123	
Usnea da	15262	8020		<u> </u>	123		123	<u> </u>	123	
Usnea he		8040		<b></b>	123		123		123	
	nadeirensis	8047		<u> </u>	123		123		123	
Usnea m		8050		<b></b>	123		123		123	
Usnea o	ccidentalis	8054		<u> </u>	123		123		123	
Usnea ru		8063	ļ	<b>1</b>	123	<del> </del>	123		123	
Usnea st		8069		<b>I</b>	123	<u> </u>	123		123	
	ubfloridana	8072		12	(1)23	<del> </del>	123		123	
	npecspross	8076	· ·	<u> </u>	123	<del>                                     </del>	123	<del>                                     </del>	123	
	a candelaria	8201		<u> </u>	123	<del> </del>	123	-	123	
Vulpicid	a viridis	1020	ļ,	<del>  , , , -</del>	12,.3	<del> </del>	123		123	TIC Morolflows
K Clade	- Mesersing	A STATE OF THE PARTY OF THE PAR	<b></b>	3/	<u>می.23</u>	<del>}</del>	123	<del> </del>	123	
		<u> </u>		<b> </b>	123	<del> </del>	123		123	
		<del> </del>	<u> </u>	1	123	<del> </del>	123	<u> </u>	123	
		<b></b>	<del> </del>	<b>_</b>	123		123	<b></b>	123	
		<del> </del>	<del> </del>	1	123	<del>                                     </del>	123	<b>†</b>	123	
		<b></b>	<del> </del>	<del> </del>	123	<del>                                     </del>	123		123	squamules only-exclude
	squamules only	<b></b>	<b> </b>	1		<del> </del>	123	<del>                                     </del>	123	crustose forms-exclude
Crustose		<b>_</b>	<u> </u>	<b>-</b>	123	<del> </del>	123	<del>                                     </del>	123	bryophyte-exclude
bryophy	te	<u> </u>	<del> </del>	<b></b>	123	<del>                                     </del>	123	1	123	
		<b> </b>	<del> </del>	<b>\</b>	123	<del> </del>	123	<b>†</b>	123	
		<b></b>	<del>                                     </del>			<del> </del>	123	1	123	
		<b></b>	<del> </del>	1	123	<del> </del>	1	†		
1			<b></b>		<u> </u>	<del> </del>	<del>- </del>	<del>                                     </del>	1	

Lichen Communities PLOT PACKING SLIP FHM, 199	14
Plot hex number: #4 State: VA County: 6 Ayen	-
Date: Tuly 19 1994 Crew Member's Name: 5 Powers Crew number: 1	-
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY	!
Record the time lichen sampling began:  Record the time lichen sampling ended:  Total time spent sampling the plot:  1:50 an  2:58 pn  1hr & min	
Comments about the plot, the lichens, the vegetation, and/or the weather:  Sprice/Fic Overston, with open yellow birch/maple underston.  Sampling time was cut short by heavy Thunderstorm offen  Partly Sunny  REMEMBER:	ــ <u>``</u> عد
Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.  Note! Had not observed a Species for 15 mins;  to ending time.	new prior

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 4

Elevation 5,340 ft

Approx. 0.75 mile S/SE of Mount Rogers summit on ridge to Pine Mountain & Cabin Ridge. Spruce/fir forest with yellow birch/maple. Site is near Appalachian Trail and approx. 6 miles W/SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 19, 1994

No. 4-

indetetop hoton - Tom

County:

Lichen Identification Data Sheet Jefferson National Forest --1994

Mt. Rogers National Recreation Area Plot. No. State: Virginia Smyth

Collector Lichen Specialist

	Data to	enter		T		1			
Species name	Sp. code	Abund	8ag #	A	Bag #	Α	Bag #	A	Comments
Anaptychia palmulata	301			123		123		123	
Anzia copodes	402			123		123		123	
Bryoria bicolor	602			123		123		123	
Bryoria furcellata	609			123		123		123	
Candelaria concolor	8301			123		123		123	
Candelaria fibrosa	8302			123		123		123	
Canoparmelia caroliniana	802			123		123	······	123	
Cetraria americana				123		123		123	
Cetraria ciliaris	1006			123		123		123	
Cetraria . fendleri	1008			123		123		123	
/ Cetraria . oakesiana	1012	4	Ŋ	1(2)3	15	12(3)		123	
Cetraria orbata	1013			123		123		123	
Cetrelia cetrarioides s.l.	1101			123		123		123	
2 Cetrelia chicitae	1102	<b>J</b>	26	123	30	1,2,3	2.7	1,(2),3	LY @ Kya
Cetrelia olivetorum	1104			123		123		123	
✓ Cladonia bacillaris	1203	3	44	12.(3)		123		123	
Cladonia caespiticia	1207			123		123	·	123	
Cladonia chlorophaea s.l.	1210	7	28	23		123		123	
Cladonia coniocraea	1211			123		123	······································	123	
Cladonia cristatella	1212			123		123	<u> </u>	123	
Cladonia cylindrica	1214			123		123		123	
Cladonia didyma	1243			123		123	······································	123	
Cladonia floerkeana	12.12	1	20	1.223		123		123	
Cladonia macilenta	1225			123		123		123	
Cladonia mateocyatha	1245			123		123		123	
Cladonia ochrochlora	1228			123		123		123	
Cladonia parasitica	1229			123		123		123	
Cladonia peziziformis	1242			123		123		1.,2.,3	
Cladonia ramulosa(pityrea)	1234			123		123		123	
Cladonia ravenelii	1237			123		123		123	
Cladonia simulata	1246			123		123		123	
	1236	#	19	€123	10	£323		123	
Cladonia squamosa Cladonia subradiata	<del>                                     </del>	<b>-</b>		123		123		123	
Cladonia vulcanica	<b> </b>			123		123		123	
Coccocarpia erthroxyli	1303			123		123		123	
	1304		<del> </del>	123		123		123	
Coccocarpia palmicola Collema conglomeratum	1304		ļ	123		123		123	
	1412			123		123		123	
Collema nigrescens	1415	<b></b>		123		123		123	
Collema subflaccidum	2501	<del> </del>		123		123		123	
Everniastrum catawbiense 7 Flavoparmelia caperata	2601	4	<del>                                     </del>		/2	123		123	
	2702		2/ 19	123		123		123	
Flavopunctelia flaventior	()		<b>}</b>	123		123		123	
Heteroderm. appalachensis	2804	<u> </u>	<b></b>	123		123		123	
Heterodermia casarettiana	<del></del>		ļ			123		123	
Heterodermia crocea	2806			123	<u></u>	123		123	
Heterodermia granulifera	2812	<b></b>		123	<b></b>	123		123	
Heterodermia hypoleuca	2813		<b> </b>	123	<del> </del>	123		123	
Heterodermia leucomelos	2814		<b></b>	123		123		123	
Heterodermia microphylla	1 2000	<b> </b>	<b></b>	123	<del> </del>			123	
Heterodermia obscurata	2816	<b></b>	<b></b>	123	<del> </del>	123		123	
Heterodermia speciosa	2822		<b> </b>	123		123		123	
Heterodermia squamulosa	2823	ļ		123	<del> </del>	123		123	
Hyperphyscia addiutinata	2901		<u></u>	123	<u> </u>	123			
Hyperphyscia syncolia	<b> </b>	<b></b>		123	<u> </u>	123		123	
Hypogymnia krogiae	3110	<del> </del>	<u> </u>	123	<b></b>	123		123	
/ Hypogymnia physodes	3116	./		12.(3)	L	123		123	

Atlaper \$5 Ustury 95

	1	Data to	enter							<u> </u>
· 14	Species name	Sp. code	Abund	Bag #	A	Bag #	l A	Bag #	A	Comments
-		3201	لم	//	12(3)		(e123	3	1.07.3	
. 1	Hypotrac croceopustulata	3205	-AF		123		123		123	1050
-	Hypotrac, gondylophora Hypotrachyna livida	3203			123		123		123	
	Hypotrachyna novella	3200			123		123		123	
-	<u> </u>	3210			123		123		123	
-	Hypotrachyna osseoalba	3215			123		123		123	
-	Hyptrachyna pustulifera	3216	- <u>,                                     </u>	14	1.(2:.3		123		123	
10	Hypotrachyna revoluta Hypotrachyna showmanii	3218	<u>~</u>		123		123		123	
-	Hypotrachyna thysanota	3220			123		123		123	
1	Imshauqia aleurites	3301		32	1.63.3	18	1.2/3	/7	1.22.3	
1/	Imshaugia placorodia	3302	<del>-</del>		123		1.2.3		123	
-	Lept. austroamericana	7774			123	<u> </u>	123		123	
	Leptogium corticola	3609	<u> </u>		123		123		123	
-	Leptogium cyanescens	3611			123	w	123		123	
-	Leptogium laceroides	3624			123		123		123	
-	Leptogium teretiusculum	302.			123		123		123	
-	Lobaria pulmonaria	3905			123		123		123	
	Lobaria quercizans	3906			123		123		123	
$\vdash$	Lobaria ravenelii	3300			123		123		123	
	Melanelia halei	4008	<b>!</b>		123	<del> </del>	123	··	123	
$\parallel$	Melanelia nalei Melanelia subaurifera	4015	<u> </u>		123		123		123	
-	Menegazzia terebrata	4101			123		123	<u> </u>	123	
	Myelochroa aurulenta	4201			123		123		123	
-	Melochroa galbina	4202			123		123		123	
-		4203	<u> </u>		123		1.2.3		123	
$\parallel$	Myelochroa metarevoluta	4403			123		123		123	
$\parallel$	Nephroma helveticum	4703			123		123		123	
$\parallel$ — $\parallel$	Pannaria leucophaea  Pannaria leucosticta	4704			123		123		123	
1-		4711	<b></b>	<u> </u>	123		123		123	
	Pannaria rubiginosa Pannaria tavaresii	4713	<u> </u>		123		123		123	
_	Parmelia squarrosa	4805	<u> </u>		123		123		123	
1	Parmelia sulcata	4806			123		123		123	
-	Parmella sucata  Parmellella corallinoides	4902	ļ		123		123		123	
$\vdash$	Parmeliella tryptophylla	4904	<u> </u>		123		123		123	
12	Parmelinopsis horrescens	5101	J	4	12(3)		123		123	
-	Parmelinopsis minarum	5102	i	4	1(2).3		123		123	
4	Parmelinopsis spumosa	5104			123		123		123	
-	Parmeliopsis hyperopta	5202			123		123		123	
14	Parmotrema arnoldii	5301	7	29	12.3		123		123	UV
1/	Parmotrema austrosinese	5302			123	***************************************	123		123	
-	Parmotrema crinitum	5305	<u> </u>		123		123		123	
-	Parmotrema cuntum	5310			123		123		123	
-	Parmotrema of gardneri	5328	<del>                                     </del>		123		123		123	
-	Parmotrema hypotropum	5314	<del> </del>		123		123		123	
-	Parmotrema margaritatum		<u> </u>		123		123		123	
-	Parmotrema mellissii	5319			123		123		123	
$\parallel$	Parmotrema michauxianum				123		123		123	
	Parmotrema perforatum	5323	<u> </u>		123		123		123	
-	Parmotrema periorata	5303	<del>                                     </del>		123		123		123	
-	Parmote praesorediosum	5324	<del>                                     </del>		123		123		123	
-	Parmotrema rampoddense	5326			123		123		123	
-	Parmotrema rigidum	5327	<del> </del>		123		123		123	
	Parmotrema stuppeum	5329	<u> </u>		123		123		123	
-	Parmotrema subtinctorum	5331	<del>                                     </del>		123		123		123	
-	Parmotrema subsumptum		<del>                                     </del>		123		123		123	
-	Parmotrema tinctorum	5333	<del>l                                      </del>		123		123		123	
-	Parmotrema ultralucens	5334	<b>†</b>		123		123		123	
[ <del></del>	Parmotrema xanthinum	5335	<u> </u>		123		123		123	
-	Phaeophyscia adiastola	5601	<del>                                     </del>	ļ	123		123	İ	123	
.—	Phaeophyscia ciliata	5603	<del></del>		123		123		123	
1	Phaeophys. erythrocardia	5604	<del>                                     </del>		123		123		123	
	Phaeophyscia pusitoides	5613	f	ļ	123		123		123	
-	Phaeophyscia rubropulchra		<b>†</b>		1.2.3		123		123	
<u></u>	a Lingeophyscia (nny charichia	7017		<del></del>				hamma area area		

MT Regen +5 21 July 95

MT Rogers		-	1 fresh			·	_		
	Data to	enter			0 #		0		C
Species name	Sp. code	Abund	82g #	<u> </u>	Bag #	A	8ag #	A	Comments
Physcia aipolia	5702			123		123		123	
Physcia americana	5704	<u> </u>		123		123		123	
Physcia crispa	<u> </u>			123		123	ļ	123	
Physcia miltegrana	5716			1.,2.,3		123		123	
Physcia neogaea	5718			123		123	ļ	123	
Physcia stellaris	5723	<u> </u>		123		123		123	
Physciella chloantha	<u> </u>			123		123		123	
Physconia detersa	5901			123		123		123	
Platismatia tuckermannii	6106			123		123		123	
Pseudevernia cladonia	6301	لهی	36	1.(2).3	15	1.(2.)3	<i>J</i> 4	142.33	27 3 25 1
Pseudevernia consocians	6302			123		123		123	12 (2)
Psudocyphellaria aurata	<u> </u>			123		123		123	
Psudocyphellaria crocata	6404			123		123		123	
Punctelia appalachensis	6701			123		123		123	
Punctelia bolliana	6702			123		123		123	
Punctelia missouriensis	6705			123		123		123	
/6 Punctelia rudecta	6707	<u>/كن</u>	28	123		123	<u> </u>	123	
Punctelia semansiana	6708	<u> </u>	<u> </u>	123		123	<del> </del>	123	
Punctelia subrudecta	6711	<u> </u>	<b>]</b>	123	· · · · · · · · · · · · · · · · · · ·	123	<del> </del>	123	
Pyxine caesiopruinosa	6803			123		123		123	
Pyxine sorediata	6808			123		123	<u> </u>	123	
7 Ramalina americana	6901	/	72	(J).23		123		123	
Ramalina stenospora	6932			123		123	<u> </u>	123	
Ramalina willeyi	6940			123		123		123	
Rimelia cetrata	7101			123		123		123	
Rimelia diffractaica	7103			123		123	1	123	
Rimelia reticulata	7104			123		123		123	
Rimelia simulans	7105			123		123	İ	123	<u> </u>
Rimelia subisidiosa	7106			123		123		123	
Sticta weigelii	7506			123		123		123	
Usnea adculifera	8001			123		123		12,.3	
Usnea ceratina	8014	1		123		123		1_23	
Usnea cornuta	8019	1		123		123		123	
Usnea dasaea	8020	1		123		123		123	
Usnea hesperina	8040			123		123		123	
Usnea madeirensis	8047		i i	123		123		123	
Usnea mutabilis	8050			123		123		123	
Usnea occidentalis	8054	1		123		123		123	
Usnea rubicunda	8063			123		123		123	
Usnea strigosa	8069		ł	123		123		123	
Usnea subfloridana	8072	<u> </u>	1	1.,2.,3		123		123	
Usnez subsczbrosa	8076			123		123		123	
Xanthoria candelaria	8201	1		123		123		123	
Vulpicida viridis	1020		<b> </b>	123		123		123	
		<del>                                     </del>	17	<b>(</b> ).23	<b>1</b>	123		123	
18 Chara farrate	1	<del>                                     </del>	<del> </del>	123		123		123	
	1	<del> </del>	<b> </b>	123		123	1	123	
		1	1	123		123		123	
	1	<del> </del>	<b> </b>	123	<del>                                     </del>	123	1	123	
	-	<del> </del>	<b> </b>	123	<del>                                     </del>	123		123	
	<b></b>	+	7	12(3)	6	12.(3)		123	squamules only-exclude
Cladonia squamules only	<del> </del>	<del>                                     </del>		123	<del>                                     </del>	123		123	crustose forms-exclude
Crustose lichen	<b></b>		1	123	<del></del>	123	<b>†</b>	123	bryophyte-exclude
bryophyte	<b> </b>	<del> </del>	<b>!</b>		<del> </del>	123	1	123	
	<del> </del>	<del> </del>	<b> </b>	123		123	†	123	
	1	<del> </del>	-			123	<del>                                     </del>	123	
	<del> </del>	<del> </del>	<b>!</b>	123	<del> </del>	123	<del> </del>	† · · · · · · · · · · · · · · · · · · ·	
	<u> </u>	<b></b>	<b></b>	<del></del>	<del> </del>	-	<del> </del>	<del> </del>	
	1		1	1				d	

Lichen Communities PLOT PACKING SLIP FHM, 1994 Whitely Mh Top
Plot hex number: #5 State: VA County: Smyth
Date: July 21, 1994 Crew Member's Name: 5, Powers Crew number: 1
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY!
Record the time lichen sampling began:  Record the time lichen sampling ended:  Total time spent sampling the plot:    11:04 am
Comments about the plot, the lichens, the vegetation, and/or the weather:  Spice Forest (Overstory) with dense redsprice, Yellow birch, Mountain as a survey strain as a specific Education 5340. Partly elasely with reg moving in arks approximately 2/s of the survey complete.  REMEMBER:  Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.

SMYTH CO.: VIRGINIA. Mt. Rogers NRA Plot No. 5

Elevation 5,340 ft

Whitetop Mountain, 1,000 ft W/NW of summit. forest with red spruce, yellow birch, mountain ash understory. Site is at end of FS Road 89 W of VA Route 600 and is approx. 10.6 miles W/SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 21, 1994

No. 5-

White phys. It white greek Jefferson National Forest -- 1994

Mt. Rogers National Recreation Area Plot. No. 6

Date:
tate: Virginia F92-67

Collector
County: Steepfor

Collector Lichen Specialist

J. Dey

		Data to	enter							
	Species name	Sp. code	Abund	Bag #	Α	Bag #	A	Bag #	Α	Comments
		301	1	11	1.62.3		123		123	
	Anaptychia palmulata Anzia copodes	402			123		123		123	
$\parallel$	Bryoria bicolor	602			123		123		123	
-	Bryoria furcellata	609			123		123		123	
$\vdash$	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302		<b></b>	123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
-	Cetraria americana	- 002			123		123		123	
-	Cetraria ciliaris	1006			123	·	123		123	
-	Cetraria . fendleri	1008	<b></b>		123		123		123	
$\parallel$	Cetraria . oakesiana	1012	· ·	16	1243)	34	16.2.3	24	1263	
1-	Cetraria orbata	1013			123	<del></del>	123		123	
$\vdash$	Cetrelia cetrarioides s.l.	1101			123		123		123	
1	Cetrelia chicitae	1102	-32	25	12.3/	15	1.2.3		123	
Z		1104	<b>J</b>	LO	120		123		123	
1	Cladonia badillaris	1203	<u> </u>		123		123		123	
-	Cladonia caespiticia	1207			123		12.,3		123	
$\vdash$	Cladonia chlorophaea s.l.	1210			123		12.,3		123	
$\vdash$	Cladonia coniocraea	1211			123		123		123	
$\vdash$	Cladonia cristatella	1212			123		123		123	
	Cladonia cylindrica	1214			123		123		123	
	Cladonia didyma	1243			123		123		123	
	Cladonia floerkeana				123		123		123	
11	Cladonia macilenta	1225			123		123		123	
-	Cladonia mateocyatha	1245			123		1.,23		123	
	Cladonia ochrochlora	1228			123		123		123	
1	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
	Cladonia ramulosa(pityrea)	1234			123		123		123	
	Cladonia ravenelii				123		123		123	
$\vdash$	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123	
	Cladonia subradiata				123		123		123	<u> </u>
	Cladonia vulcanica				123		123		123	
	Coccocarpia erthroxyll	1303			123		123		123	
-	Coccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412	]		123		123		123	
	Collema subflaccidum	1415			123		123		123	
1	Everniastrum catawbiense	2501	7	33	(1.2.3		123		123	
12	Flavoparmelia caperata	2601	4	1	¥ j23		123		123	
T	Flavopunctelia flaventior	2702			123		123	<u> </u>	123	
-	Heteroderm, appalachensis	4)			123		123	<u> </u>	123	
1	Heterodermia casarettiana	-			12		123	<u> </u>	123	
<b> </b>	Heterodermia croces	2806			123		123		123	
	Heterodermia granulifera	2812			123		123		123	
	Heterodermia hypoleuca	2813			123		123	<u> </u>	123	
1	Heterodermia leucomelos	2814	<u> </u>		123		123		123	
	Heterodermia microphylla	1			123		123	<u> </u>	123	
7	Heterodermia obscurata	2816	Ψ,		1.0.3	J	12(3)	<u> </u>	123	
1	Heterodermia speciosa	2822			123		123		123	1.0
7	Heterodermia squamulosa	2823	J.	17	122.3	12	1(2).3		123	3 (2) 2(3)
1	Hyperphyscia adglutinata	2901			123	<u> </u>	123	<u> </u>	123	
٠	Hyperphyscia syncolia				123		123	<del> </del>	123	<u> </u>
	Hypogymnia krogiae	3110			123		123	<u> </u>	123	1
19	Hypogymnia physodes	3116	J.	39	12.(3)	i.F	12.00		123	
1	R 7 C 74	والأرب والمستون والمستون والمستون والمستون			الكالب بيبيان عربي بيري					

whitney #6

7/21/94

		Data to	enter			<u> </u>	<u> </u>			
-15	Species name	Sp. code	Abund.	Bag #	A	Bag #	A	Bag #	A	Comments
-	Hypotrac. croceopustulata	3201			123		123		123	
,	Hypotrac. gondylophora	3205			123		123		123	
-	Hypotrachyna livida	3208	<u> </u>		123		123		123	
-	Hypotrachyna novella	7200			123		123		123	
	Hypotrachyna osseoalba	3210			123		123		123	
-	Hyptrachyna pustulifera	3215	<del>                                     </del>		123	<del>/////////////////////////////////////</del>	123		123	
$\vdash$	Hypotrachyna revoluta	3216			123		123		123	
$\vdash$	Hypotrachyna showmanii	3218			123		123		123	
	Hypotrachyna thysanota	3220			123		123		123	
	imshaugia aleurites	3301	İ		123		123		123	
	Imshaugia placorodia	3302			123		1.,2.,3		123	
	Lept. austroamericana				1.,2.,3		123		123	
H	Leptogium corticola	3609			123		123		123	
$\  - \ $	Leptogium cyanescens	3611	1		123		1.,2,.3		123	
$\vdash$	Leptogium laceroides	3624			123		123		123	
<b> </b>	Leptogium teretiusculum	342.		<b></b>	123		123		123	
1/-	Lobaria pulmonaria	3905	J	7.1	12(3)	j	1.(2).3		123	
$\mathbb{F}$	Lobaria quercizans	3906	7	23	1263	15	1(2)3	is	12(3)	16(3)
H	Lobaria ravenelii		l —		123		123		123	
1/2	Melanelia halei	4008	3	42	1263)	<i>3</i> L	102.3		123	
<b>    </b>	Melanelia subaurifera	4015	T		123		123		123	
$\vdash$	Menegazzia terebrata	4101			123	······································	123		123	
╟─┤	Myelochroa aurulenta	4201	<del> </del>		123		123		123	
<b> </b>	Melochroa galbina	4202			123		123		123	
	Myelochroa metarevoluta	4203	ļ		123		1.,2.,3		123	
-	Nephroma helveticum	4403	<u> </u>		123		123		123	
╟─┤	Pannaria leucophaea	4703			123		123		12.,3	
-	Pannaria leucosticta	4704			123		123		123	
اـــــا	Pannaria rubiginosa	4711			123		123		123	
-	Pannaria tavaresii	4713	<u> </u>		123		123		123	
. 17	Parmelia squarrosa	4805	.3	39	£123		123		123	
		4806	J	11	1.(2)3		12/3		123	
14	Parmeliella corallinoides	4902			123		123		123	
$\vdash$	Parmeliella tryptophylla	4904			123		12.,3		123	
$\vdash$	Parmelinopsis horrescens	5101			123		123		123	
<b> </b>	Parmelinopsis minarum	5102			123		123		123	
$\vdash$	Parmelinopsis spumosa	5104			123		123		123	
	Parmeliopsis hyperopta	5202			123		123	<u> </u>	123	
$\vdash$	Parmotrema arnoldii	5301			123		123		123	
<b> </b>	Parmotrema austrosinese	5302	<b></b>		123		123		123	
1	Parmotrema crinitum	5305	3	4	12.(3)		123		123	
<del>                                     </del>	Parmotrema eurysacum	5310		· · · · · ·	123	<u> </u>	123		123	
-	Parmotrema of gardneri	5328	<b>.</b>		123		123		123	
╟─┤	Parmotrema hypotropum	5314			123		123		123	
16		5318	7	3/	1,223		123		123	
120	Parmotrema mellissii	5319			123		123		123	
$\vdash\vdash\vdash$	Parmotrema michauxianum				123		123		123	
╟─┤	Parmotrema perforatum	5323			123		123		123	
أيرا	Parmotrema periata	5303	<u>i</u>	16	12(3)		123		123	
$\mathbb{H}^{\mathcal{H}}$	Parmotr. praesorediosum	5324	<del>                                     </del>		123		123		123	
}	Parmotrema rampoddense	5326			123		123		123	
}	Parmotrema rigidum	5327	<u> </u>		123		123		123	
$\vdash$	Parmotrema stuppeum	5329			123		123		123	
╟─┤	Parmotrema subtinctorum	5331			123		123		123	
<b>}</b>	Parmotrema subsumptum	<u> </u>	<b> </b>		123		123		123	
$\vdash$	Parmotrema subsumpum Parmotrema tinctorum	5333	<b> </b>	<b></b>	123		123		123	
$\vdash$		5334	<del> </del>		123		123		123	
11	Parmotrema ultralucens	5335	<b></b>	<b>h</b>	123		123		123	
- `-	Parmotrema xanthinum	5601	<del> </del>	<b> </b>	123		123		123	
_,44	Phaeophyscia adiastola	5603	<del>                                     </del>	<b> </b>	123		123		123	
<b></b>	Phaeophyscia ciliata	5604	<del> </del>	<b> </b>	123		123	<b> </b>	123	
	Phaeophys. erythrocardia	5613	٦.	Н	1.23		123		123	
18	Phaeophyscia pusilloides		<del>  = -</del>	<del></del>	123		123		123	
لــــا	Phaeophyscia rubropulchra	1 JOI **		Desirence de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la						

		Data to	enter							
-	Species name	Sp. code	Abund.	Bag #	Α	8ag #	Α	Bag #	Α	Comments
7	Physcia aipolia	5702			123		123		123	
	Physcia americana	5704			123		123		123	
1	Physcia crispa				1,.23		123		123	
-	Physica millegrana	5716			123		123		123	
-	Physica neogaea	5718			123	**************************************	123		123	
-1	Physica stellaris	5723			123		123		123	
-	Physciella chloantha	2/24			123		123		123	
	Physiconia detersa	5901			123		123		123	
	Platismatia tuckermannii	6106			123		123		123	
-1	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123		123	
-	Psudocyphellaria aurata	1			123		123		123	
	Psudocyphellaria crocata	6404			123		123	***************************************	123	
	Punctelia appalachensis	6701	4	29	162,3	47	126		123	
7	Punctelia bolliana	6702			123		123		123	
-1	Punctelia missouriensis	6705			123	· · · · · · · · · · · · · · · · · · ·	123		123	
<del>,  </del>	Punctelia missouriensis Punctelia rudecta	6707	3	37	1(2.3	حاتي	1(2.)3	14	1.72.3	7(1)
-	Punctelia rudecta Punctelia semansiana	6708	<del>-</del> -		123	- <del> </del>	123		123	
-4		6711	7	27 (	123		123		123	
<u>'</u>	Punctelia subrudecta	6803	- <u>`</u>		123		123		123	
	Pyxine caesiopruinosa	6808	J	28 (	0123	15	Ø123	10	12(3)	
	Pyxine sorediata	-{		41	1.(2).3		123		123	
7.	Ramalina americana	6901	ょ	_ <i></i>		., ,,	123		123	
_	Ramalina stenospora	6932			123				123	
	Ramalina willeyi	6940			123		123			
	Rimelia cetrata	7101			123	<del> </del>	123		123	
Î	Rimelia diffractaica	7103			123		123	L	123	
	Rimelia reticulata	7104			123		123		123	
1	Rimelia simulans	7105			123		123		123	
- 1	Rimella subisidiosa	7106			123		123		123	
П	Sticta weigelli	7506			123		123		123	<del></del>
1	Usnea aciculifera	8001			123		123		123	
1	Usnea ceratina	8014			123		123		123	
	Usnea cornuta	8019			123		123		123	
- 1	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040			123		123		123	
-1	Usnea madeirensis	8047			123		123		1.,23	
7	Usnea mutabilis	8050			123		123		123	
-1	Usnea occidentalis	8054		i .	123		123		123	
-	Usnea rubicunda	8063			123		123		123	
q	Usnez strigosa	8069	4	36.50	(12.23	424	<b>(1).23</b>		123	
	Usnea subfloridana	8072	J	·	(1)23	43	12(3)	ye	1(2).3	
4	Usnea subscabrosa	8076	· ·		123		123		123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020		I	123		123		123	
71	Royaling Interpret		17	44	(1)23		123		123	
٦	nous and		<u> </u>	<b>†</b>	123		123		123	
		1	<del> </del>		123		123		123	
-					123		123		123	
-1		-		<b>1</b>	123		123		123	
		<b> </b>	<del>                                     </del>	<b>1</b>	123		123		123	
4	Ot at a second and a	1	<del> </del>	.18	12.3		123		123	squamules only-exclude
	Cladonia squamules only	<b> </b>	}	72	123		123		123	crustose forms-exclude
_	Crustose lichen	<del> </del>	<del> </del>	<b>!</b>	123		123		123	bryophyte-exclude
-	bryophyte	<b>}</b>	-	<b>J</b>	123	<del> </del>	123		123	
_		<b></b>	<del> </del>	<b> </b>	123	<del>                                     </del>	123	<b> </b>	123	
_		<b></b>	<del> </del>	<del>]</del>			123	<del> </del>	123	
_		<del> </del>	<del> </del>	1	123	<del> </del>	163		1.42	
		H	<u></u>	Д	1	<u> </u>		<u> </u>		<u> </u>

Lichen Communities  White Min & White Crark,  Plot hex number: # 6 State: VA County: Grayson  T. Blavins  Date: Thy 1/1994 Crew Member's Name: 5 Powers Crew number:	м, 1994
Plot hex number: #6 State: VA County: Grayson T. Blains	
Date: The 11994 Crew Member's Name: 5 Powers Crew number:	
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FO	JLLY!
Record the time lichen sampling began:  Record the time lichen sampling ended:  2:25 pm	•
Total time spent sampling the plot:	
Old Northern Hordwood 5. te (Am. Beach, Yellow Birch Sugar Maple Of Dense Brych / Maple indessey South ont aspects Clevation 49	resky).
forthy Moudy Sampling was supposed when no new lither stricts with	- Marine !
REMEMBER: Alto 15 mirs of Sampling.  Record the abundance code on each bag!  Remember to look for the common species.  Dense overstay with sm  Remember to look for the common species.	res_
Try to put only one species in each bag.	

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 6 Ele

Elevation 4,920 ft

Whitetop Mountain, 0.25 mi E of summit, SE slope above Whitetop Creek. Old northern hardwoods forest. Site is off of FS Road 89 W of VA Route 600 approx. 9.7 miles W/SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 21, 1994

No. 6-

Lichen Identification Data Sheet Jefferson National Forest --1994 Date:

Collector

Lichen Specialist

	Species name	Data to Sp. code	enter Abund	Bag #	A	Bag #	A	Bag #	A	Comments
7	Anaptychia palmulata	301	نی	47	(1,23	وع	12(3)	15	<b>(1)</b> .23	2(8)
	Anzia copodes	402	-		123	<del></del>	123		123	
		602			123		123		123	
	Bryoria bicolor	609			123		123		123	
	Bryoria furcellata	<u> </u>	<u> </u>		123		123		123	
	Candelaria concolor	8301					123		123	
	Candelaria fibrosa	8302		<b></b>	123		_			
	Canoparmelia caroliniana	802	<b></b>	<u> </u>	123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria . fendleri	1008			123		123		123	
-	Cetraria . oakesiana	1012	+	24/	¥ )23	<u>""</u>	12(3)		123	
	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia bacillaris	1203			123		123		123	
	Cladonia caespiticia	1207	J	23	12.(3)		123		123	
-	Cladonia chlorophaea s.i.	1210			123		123		123	
	Cladonia coniocraea	1211			123		123		123	
		1212			123		123		123	
_	Cladonia cristatella	1214		<u> </u>	123		123		123	
7	Cladonia cylindrica		ی	J 5	12.3		123		123	
_	Cladonia didyma	1243	<u> </u>	J.						
_	Cladonia floerkeana			ļ <u>,</u>	123		123		123	
_	Cladonia macilenta	1225	3	yο	12(3)		123		123	
	Cladonia mateocyatha	1245			123		123		123	
	Cladonia ochrochlora	1228			123		123		123	
	Cladonia parasitica	1229		L	123		123		123	
	Cladonia peziziformis	1242			123		123		123	
_	Cladonia ramulosa(pityrea)	1234			123		123		123	
	Cladonia ravenelii				123		123		123	
	Cladonia simulata	1246			123		123		123	
	Cladonia squamosa	1236			123		123		123	
-	Cladonia subradiata				123		123		123	
				<b></b>	123		123		123	
_	Cladonia vulcanica	1303			123		123		123	
_	Coccocarpia erthroxyli		ļ	<u> </u>	123		123		123	
_	Coccocarpia palmicola	1304			<u> </u>		123		123	
	Collema conglomeratum				123				123	
	Collema nigrescens	1412			123		123			
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501			123		123		123	
	Flavoparmelia caperata	2601	4	/3	23 (۲۲)		12(3)		123	
	Flavopunctelia flaventior	2702			123	<u> </u>	123		123	
-	Heteroderm, appalachensis	2802			123		123		123	
	Heterodermia casarettiana	2804			123		123		123	
٦	Heterodermia crocea	2806			123		123		123	
	Heterodermia granulifera	2812			123		123		123	
4	Heterodermia hypoleuca	2813			123		123		123	
-		2814		<b></b>	123	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	123		123	
-	Heterodermia leucomelos	2017		<del> </del>	123		123		123	
_	Heterodermia microphylla	2012		100	1.2.3	42	().23		123	
_	Heterodermia obscurata	2816		48					123	
	Heterodermia speciosa	2822		<del></del>	123		123		123	
	Heterodermia squamulosa	2823	خ	36	12(3)		123			
	Hyperphyscia adglutinata	2901			123		123		123	
	Hyperphyscia syncolla				123		123		123	
	Hypogymnia krogiae	3110			123		123		123	
-	Hypogymnia physodes	3116	5	4.7	12/3	PU	12(3)		123	8 MJ

7/22/54

				T - V						
.#		Data to Sp. code	enter Abund	B20 #	Α	Bag #	A	Bag #	A	Comments
H	Species name		ADUITOL	Bag #	123	Day #	123	Uay *	123	Wisiters
	Hypotrac. croceopustulata	3201 3205			123		123		123	
	Hypotrac gondylophora	3208			123	!	123		123	
-	Hypotrachyna livida Hypotrachyna novella	3200			123		123		123	
-	Hypotrachyna osseoaiba	3210			123		123		123	
	Hyptrachyna pustulifera	3215			123_		123		123	
10	Hypotrachyna revoluta	3216	.3	12	123		123		123	
12	Hypotrachyna showmanii	3218	L	<u> </u>	1(2)3		123		123	
- N	Hypotrachyna thysanota	3220			123		123		123	
	Imshaugia aleurites	3301			123		123		123	
	Imshaugia placorodia	3302			123		123		123	
1	Lept. austroamericana				123		123		123	
	Leptogium corticola	3609			123		123		123	
	Leptogium cyanescens	3611			123		123		123	
	Leptogium laceroides	3624			123		123		123	
	Leptogium teretiusculum				123		123		123	
11	Lobaria pulmonaria	3905	4	23	1(2)3		123		123	
12	Lobaria guercizans	3906	J	34	12.(3)		123		123	
-	Lobaria ravenelii				123		123		123	
13	Melanelia halei	4008	*	15	1.(2).3		123		123	
-	Melanelia subaurifera	4015			123		123		123	
	Menegazzia terebrata	4101			123		123		123	
	Myelochroa aurulenta	4201			123		123		123	
14	Melochroa galbina	4202	/	45	(1).23		123		123	
	Myelochroa metarevoluta	4203			123		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123		123		123	
"-	Pannaria rubiginosa	4711			123		123		123	
:	Pannaria tavaresii	4713			123		123		123	
.15	Parmelia squarrosa	4805	4	H	12(3)	16	1(.2).3	17	12(3)	18(5)
	Parmelia sulcata	4806			123		123		123	
	Parmeliella corallinoides	4902			123		123		123	
	Parmeliella tryptophylla	4904			123		123		123	
	Parmelinopsis horrescens	5101			123		123		123	
	Parmelinopsis minarum	5102			123		123	<u> </u>	123	
	Parmelinopsis spumosa	5104			123		123		123	
	Parmeliopsis hyperopta	5202		<u></u>	123		123		123	
	Parmotrema arnoidii	5301		<b></b>	123		123		123	
	Parmotrema austrosinese	5302		<b></b>	123	<u> </u>	123	<b> </b>	123	
	Parmotrema crinitum	5305	3	<u> </u>	12(3)		123	<u> </u>	123	
	Parmotrema eurysacum	5310		<u> </u>	123		123		123	
	Parmotrema of gardneri	5328		<u> </u>	123		123		123	
	Parmotrema hypotropum	5314	<b></b>	<u> </u>	123		123		123	<u> </u>
	Parmotrema margaritatum				123	<u> </u>	123	<del> </del>	123	
	Parmotrema mellissii	5319	<u> </u>	<b>]</b>	123	<u> </u>	123	<u> </u>	123	
	Parmotrema michauxianum			<b> </b>	123	<u> </u>	123	<u> </u>	123	
	Parmotrema perforatum	5323	<u> </u>	<u> </u>	123	<u> </u>	123	<u> </u>	123	
	Parmotrema perlata	5303		<b></b>	123	<u> </u>	123	<u> </u>	123	
	Parmotr. praesorediosum	5324	<u> </u>	<b>J</b>	123	<u> </u>	123	<u> </u>	123	
	Parmotrema rampoddense	5326	<u> </u>	<b> </b>	123		123	<u> </u>	123	
	Parmotrema rigidum	5327	<b> </b>	<b>J</b>	123	<u> </u>	123	<u> </u>	123	
	Parmotrema stuppeum	5329	<u> </u>	ļ	123	<u> </u>	123	<del> </del>	123	
	Parmotrema subtinctorum	5331	<u> </u>	<b>}</b>	123	<b></b>	123	<u> </u>	123	
	Parmotrema subsumptum	<u> </u>	<u> </u>	<b> </b>	123	<u> </u>	123		123	
	Parmotrema tinctorum	5333		<b> </b>	123	<b></b>	123	<u> </u>	123	
	Parmotrema ultralucens	5334		<b></b>	123	<del></del>	123	<del></del>	123	
	Parmotrema xanthinum	5335	<b></b>	<b> </b>	123	<u> </u>	123	<del> </del>	123	
	Phaeophyscia adiastola	5601	<b></b>	<u> </u>	123		123		1,.23	
	Phaeophyscia ciliata	5603		<b></b>	123	<u> </u>	123	<b></b>	123	
	Phaeophys. erythrocardia	5604		<b></b>	123	<u> </u>	123		1,.23	
	Phaeophyscia pusilloides	5613		<b></b>	123	<u> </u>	123	ļ	123	
11	Phaeophyscia rubropulchra	5614		ì	123		123	<u> </u>	123	

Elkquiden #)

18		Data to	enter						1	
	Species name	Sp. code	Abund.	Bag #	Α	Bag #	A	8ag #	Α	Comments
Ħ	Physcia aipolia	5702	1	11	1 (2.3		123		123	
-	Physcia americana	5704			123		123		123	
- 1	Physcia crispa				123		123		123	
	Physica millegrana	5716			123		123		123	
	Physica neogaea	5718			123		123		123	
	Physcia stellaris	5723	1	50	1.023	31	(1)23		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901			123		123		123	
	Platismatia tuckermannii	6106	2	7	1.(2).3		123		123	
	Pseudevernia ctadonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123		123	
	Psudocyphellaria aurata				123		123		123	
$\rightarrow$	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701	7	7	12.(3)		123		123	
	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			1.,2.,3		123		123	
20	Punctelia rudecta	6707	3	Š	12(3)		123		123	
- 1	Punctelia semansiana	6708	/	42	(1.,23		123		123	
	Punctelia subrudecta	6711			123		123		123	
	Pyxine caesiopruinosa	6803			123		123		123	
	Pyxine caesiopramosa  Pyxine sorediata	6808			123		123		123	
		6901	1	46	1(2)3	44	1,23	41	1).23	49/2 37 (2) 27(2
	Ramalina americana	6932	-	70	123		123		123	18 E 26(1)
	Ramalina stenospora	6940		<b></b>	123		123		123	30(3) 250/
	Ramalina willeyi				123		123		123	
	Rimelia cetrata	7101 7103			123		123		1,.23	
	Rimelia diffractaica				123		123		123	
	Rimelia reticulata	7104		<b></b>			123		123	
	Rimelia simulans	7105			123		123		123	
	Rimelia subisidiosa	7106			123		123		123	<u> </u>
	Sticta weigelli	7506		<u> </u>	123				123	
	Usnea adoulifera	8001			123		123		123	
	Usnea ceratina	8014		<b> </b>	123		123			
	Usnea cornuta	8019			123		123		123	
	Usnea dasaea	8020			123		123		123	
	Usnea hesperina	8040			123		123		123	
1	Usnea madeirensis	8047			123		123		123	
	Usnea mutabilis	8050		<u> </u>	123		123		123	<u> </u>
	Usnea occidentalis	8054		<u> </u>	123	· · · · · · · · · · · · · · · · · · ·	123		123	<del></del>
	Usnea rubicunda	8063			123		1,.23		123	
	Usnea strigosa	8069			123		123		1,.23	
4/	Usnea subfloridana	8072		29	(1).23	32	12(3)		123	
	Usnea subscabrosa	8076			12.		123		123	
	Xanthoria candelaria	8201			123		123		123	
	Vulpicida viridis	1020			123		123		123	
	Claren Sucota	1244	1	3/5	(1).23		123		123	
	Pormales Jertilia	4801	~	14	1(2)3		123		123	
. 7	Jung Teles recent	6707	.7		2123	4	12(3)		123	
					1 .3		123		123	
					12.		123		123	
					123		123		123	<u> </u>
	Cladonia squamules only			2/	12.(3)		123		123	squamules only-exclude
	Crustose lichen				123		123		123	crustose forms-exclude
				1	123		123		123	bryophyte-exclude
	bryophyte		<b></b>	<del>                                     </del>	123		123		123	
			<del>                                     </del>		123		123		123	
					123		123		123	
		<u> </u>	1	<del></del>	<del>  '''-'''</del>		† · · · · · · · · · · · · · · · · · · ·		]	
		ii.	1 '	1	£ .		•		1	

Lichen Communities PLOT PACKING SLIP FH	IM, 1994
Plot hex number: #7 State: VA County: Smyth,  T. Blev. 15	·
Date: 7/22/94 Crew Member's Name: 5. Powers Crew number	:_1_
This will be part of the permanent record for this plot. PLEASE COMPLETE IT I	FULLY!
Record the time lichen sampling began:  Record the time lichen sampling ended:  Total time spent sampling the plot:  9:30 am  11:30 am  2 hours	
Comments about the plot, the lichens, the vegetation, and/or the weather: and bear Present mily a Suyar Maple Stand with some. Ash and yellow buckeye, open understony. This area is used as a sugar maple tapping collect tap for maple syrup production. Elevation is 44120° and REMEMBER:  Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.  Wenther was cloudy to surply to put only one species in each bag.	rom to

VIRGINIA. SMYTH CO.:

Mt. Rogers NRA Plot No. 7

Elevation 4,420 ft

Elk Garden, approx. 600 ft NW of VA Route 600 at its intersection with Appalachian Trail. Predominantly a sugar maple stand with some ash and yellow buckeye. Site is approx. 9 miles W/SW of Troutdale.

Collected by Tom Blevins & Susan Powers July 22, 1994

No. 7-

Elkapaden Track - bottom

Hypogymnia krogiae

Hypogymnia physodes

3110

3116

Lichen Identification Data Sheet Jefferson National Forest -- 1994

t. Rogers National Recreation Area Plot. No. 🥒 ate:

Virginia

Date: Collector

1800 AT

Lichen Specialist

راماد	anty: Saryth			م	800 64	•	Lichen Spe	cialist	J. Deg	y ,
		Data to	enter			1 W. VION TOWN				
	Species name	Sp. code	Abund	Bag #	Α	8ag #	Α	8ag #	A	Comments
	Anaptychia palmulata	301	4	18	1/2.3		123		123	
	Anzia copodes	402			123		123		123	
·	Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
	Cetraria , fendleri	1008			123		123		123	
L	Cetraria . oakesiana	1012	J	30	12.(3)	4	12(3)		12.,3	
	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
7	Cetrelia chicitae	1102	3	14	12(3)	24	1243)		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia badilaris	1203			123	<u> </u>	123		123	
4	Cladonia caespiticia	1207	J	ZZ	(1)23	2	1263	_7	12.(3)	
_ <u></u>	Cladonia chlorophaea s.l.	1210	i.	34	1,2,3	F.F.	123		123	
٠,	Cladonia coniocraea	1211			123		123		123	
	Ciadonia cristatella	1212			123		123		123	
	1	1214		<b></b>	123		123		123	
	Cladonia cylindrica	1243		<b> </b>	123		123		123	
	Cladonia didyma	1273		<b> </b>	123		123		123	<u> </u>
	Cladonia floerkeana	1225		<b> </b>	123		123		123	
_	Cladonia macilenta	1245			123		123		123	
	Cladonia mateocyatha			<b> </b>	123		123		123	
	Cladonia ochrochlora	1228		<b></b>	123		123		123	
	Cladonia parasitica	1229		<b> </b>	123	<del></del>	123		123	
	Cladonia peziziformis	1242 1234			123		123		123	
	Cladonia ramulosa(pityrea)	1234		<u> </u>	<del></del>		123		123	
	Cladonia ravenelii	1246		<b>}</b>	123		123		123	
	Cladonia simulata	1246		l	123		123		123	
	Cladonia squamosa	1236		<u> </u>			123		123	
	Cladonia subradiata	<u> </u>		ļ	123		123		123	
	Cladonia vulcanica	1000		<del> </del>	123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Coccocarpia palmicola	1304		<b></b>	123				123	
	Collema conglomeratum	1111		<b></b>	123		123		123	
	Collema nigrescens	1412	ļ		123				123	
	Collema subflaccidum	1415			123		123		123	
	Everniastrum catawbiense	2501		<u> </u>	123		123		123	ديدر ج
6	Flavoparmelia caperata	2601	J	14	12.8)		123			<i>a</i> ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	Flavopunctelia flaventior	2702			123		123		123	
	Heteroderm, appalachensis	2802		<u> </u>	123		123		123	
	Heterodermia casarettiana	2804		<u> </u>	123		123		123	
	Heterodermia crocea	2806			123		123		123	
	Heterodermia granulifera	2812	ļ	<b></b>	123		123		123	
	Heterodermia hypoleuca	2813		<b></b>	123		123		123	
	Heterodermia leucomelos	2814		<u> </u>	123		123		123	
	Heterodermia microphylla				123		123		123	
	Heterodermia obscurata	2816			123		123		123	
1	Heterodermia speciosa	2822	/	16	Ø23		123		123	
-	Heterodermia squamulosa	2823			123		123		123	
	Hyperphyscia adglutinata	2901			123		123		123	
	Hyperphyscia syncolia				123		123		123	
سذ	<u> </u>		I	11	7				4 2 2	1

1..2..3

1..2..3

1..2..3

1..2..3

1..2..3

ille Dandon Trais 49

	1			il	1		Y			
H	Coories same	Data to Sp. code	enter Abund	Bag #	A	Bag #	A	8ag#	Α	Commont
)=	Species name	3201	1 Abdita	l day r	123	Dag #	123	0 # Y	123	Comments
سد .	Hypotrac, croceopustulata	3205		<u> </u>	123		123		123	
	Hypotrac gondylophora	3208			123		123		123	
	Hypotrachyna livida	3208		-	123		123		123	
	Hypotrachyna novella	2210		<b> </b>	123		123			
	Hypotrachyna osseoalba	3210 3215		<b> </b>	123		123		123	
<b></b>	Hyptrachyna pustulifera	3215	<u> </u>	<u> </u>	123		123		123	
- 0	Hypotrachyna revoluta			6	1.62.3		123			
8	Hypotrachyna showmanii	3218	-du	<del></del>	123		123		123	
	Hypotrachyna thysanota	3220		<b> </b>					123	
	Imshaugia aleurites	3301		<u> </u>	123		123	·····	123	
	lmshaugia placorodia	3302		<u> </u>	123		123		123	
	Lept. austroamericana			<b> </b>	123	···	123		123	
	Leptogium corticola	3609		<u> </u>	123		123		123	
	Leptogium cyanescens	3611		<b> </b>	123		123		123	
	Leptogium laceroides	3624		<u> </u>	123		123		123	
	Leptogium teretiusculum			<u></u>	123		123		123	**************************************
	Lobaria pulmonaria	3905		J	123		123		123	
	Lobaria quercizans	3906		<u> </u>	123	ļ	123		123	
	Lobaria ravenelii	<u></u>			123		123		123	
9	Melanelia halei	4008	3	15	12(3)		123		123	
	Melanelia subaurifera	4015			123		123		123	
10	Menegazzia terebrata	4101	3	<i>\$</i> 2.	12(3)		123		123	
	Myelochroa aurulenta	4201			123		123		12,.3	
	Melochroa galbina	4202			123		123		123	
	Myelochroa metarevoluta	4203			1.,2.,3		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704			123	<del>, , , , , , , , , , , , , , , , , , , </del>	123		123	
	Pannaria rubiginosa	4711			123		123		123	
-	Pannaria tavaresii	4713			123		123		123	
-		4805	3	13	12(3)		123		123	
	Parmelia squarrosa	4806		_~	123		123		123	
	Parmelia sulcata	4902			123		123		123	
	Parmeliella corallinoides			<b> </b>	123		123		123	
	Parmeliella tryptophylla	4904	77	27	12(3)		123		123	
<u>/</u>	Parmelinopsis horrescens	5101	,		(1).23				123	
1	Parmelinopsis minarum	5102		13			123			
	Parmelinopsis spumosa	5104		<b> </b>	123		123		123	
	Parmeliopsis hyperopta	5202		1	123		123		123	
	Parmotrema arnoidii	5301		<b></b>	123		123		123	
	Parmotrema austrosinese	5302			123		123		123	
14	Parmotrema crinitum	5305	3	3/	12(.3)		12.(3)		123	
	Parmotrema eurysacum	5310			123		123		123	
	Parmotrema of gardneri	5328			123		123		123	
	Parmotrema hypotropum	5314		<u></u>	123		123		123	
	Parmotrema margaritatum	5318			123		123		123	
	Parmotrema mellissii	5319			123		123		123	
	Parmotrema michauxianum	5320			123		123		123	
	Parmotrema perforatum	5323			123		123		123	
	Parmotrema perlata	5303			123		123		123	
	Parmotr. praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
	Parmotrema subtinctorum	5331			123		123		123	
	Parmotrema subsumptum				123		123		123	
	Parmotrema tinctorum	5333			123		123		123	
		5334			123		123		123	
	Parmotrema ultralucens			<b> </b>	123		123		123	
-	Parmotrema xanthinum	5335		<b> </b>			123		123	
4	Phaeophyscia adiastola	5601		<b></b>	123				123	
	Phaeophyscia ciliata	5603			123		123			
	Phaeophys, erythrocardia	5604			123		123		123	
1	Phaeophyscia pusilloides	5613	-3		@123	17	123		123	
	Phaeophyscia rubropulchra	5614	.5	1 //	12.3					

Elh Sandon Thail

16 P

7/28/94

		Data to	enter							
Spe	cies name	Sp. code	Abund.	Bag #	Α	8ag #	A	Bag #	A	Comments
Physcia ai		5702			123		123		123	
Physcia ar		5704			123		123		1.,2.,3	
Physcia ci					123		123		123	
Physcia m		5716			123		123		12.,3	
Physcia ne		5718			123		123		123	
Physcia s		5723			123		123		123	
Physciella	chloantha				123		123		123	
Physconia	detersa	5901			123		123		123	
7 Platismatia	tuckermannii	6106	d	2/	1(2).3		123		123	
Pseudever	nia ctadonia	6301			123		123		123	
Pseudever	nia consocians	6302			123		123		123	
	ellaria aurata			ļ	123		123		123	
	ellaria crocata	6404			123		123		123	
	ppalachensis	6701			123		1,.23		123	<u> </u>
Punctelia I		6702			123		123		123	ļ
······································	missouriensis	6705			123		123		123	
Punctelia r		6707	J	-5	123		123		123	
c	emansiana	6708	3		12(3)		123		123	
7 Punctelia s		6711	<u> </u>	El of	123		123		123	
	esiopruinosa	6803			123		123		123	
Pyxine sor		6808	· J			16	1(2)3	7-7	12(3)	25(2)
O Ramalina a		6901	·*	10	1(2).3	29		27	123	216
Ramalina s		6932			1Z3		123		123	
Ramalina		6940			123		123		123	
Rimelia ce		7101			123		123		123	
Rimelia di		7103	3	9	123		123		123	
/ Rimelia re	<del></del>	7104	3	7			123		123	
Rimelia sir		7105		ļ	123		123		123	
Rimella su		7106			123		123		123	
Sticta wei		7506			123	· · · · · · · · · · · · · · · · · · ·	123		123	
Usnea acid		8001		<u> </u>	123		123		1.2.3	
Usnea cera		8014		<b>}</b>	123		123		123	
Usnea corr		8019			123		123		123	
Usnea dasa		8020 8040			123		123		123	
Usnea hes		8047			123		123		123	
Usnea mad		8050			123		123		123	
Usnea mut		8054			123		123		123	
Usnea occ		8063			123		123		123	
Usnea rubi		8069	<i>3.</i>	19	1.2.3	12	(1,23	33	16.3	
2 Usnea stri		8072	7		123		123		123	
Usnea sub		8076			123		123		123	
Usnea sub		8201			123		123		123	
Vulpicida		1020			123		123		123	
	miles	5100	3/	28	12.(3)	7	1.(2).3		123	RC A
- Carmer					123		123		123	
<del>-                                    </del>					123		123		123	
-					123		1.,2,,3		123	
_}_					123		123		123	
-1					123		123		123	
Cladonia	puamules only				123		123		123	squamules only-exclude
Crustose i					123		123		123	crustose forms-exclude
bryophyte					123		123		123	bryophyte-exclude
I DI YODRIYLE					123		123		123	
					123	<del></del>	123		123	
-					123		123		123	
-										
			·	1						

Lichen Communities	PLOT PACKING SLIP	FHM, 1994
Plot hex number: Plot#	State: VA County 5, Powers ew Member's Name: Tim Eling, Mike Evan	: Smyth
Date: 7/28/94 Cre	ew Member's Name: Tim Eling, Mike	Crew number: 1
This will be part of the perr	manent record for this plot. PLEASE	COMPLETE IT FULLY!
Record the time lichen sample Record the time lichen sample.		-
Total time spent sampling the	•	-
Dint was Incorted in	he lichens, the vegetation, and/or the war core area on a Nort	h livest aspect.
It was Sunny w	as very poor. Abundance hen we started but bed end of the plot. Elev.	come very cloudy
Record the abundan	ice code on each bag!  for the common species.	3,800 cies: Sugar Maple, ASH, Cherry,
	species in each bag.  Black Bi	cies: Sugar Maple, ASH, Cherry, I Fraser Magnolia, Yellow Birch, rch Buckeye, Hemlock, locust
	Keona	ple.

VIRGINIA. SMYTH CO.:

Mt. Rogers NRA Plot No. 8 Elevation 3,800 ft

Approx. 250 ft SE of FS Road FH17/VA Route 600—along
3,800 ft contour line S of Elk Garden Trail Head (No.
4537) and NE of Big Branch. Cove forest of hardwoods
and hemlock. Approx. 9.2 miles W/SW of Troutdale.

No. 8-

Collected by Tom Blevins & Susan Powers
July 22, 1994

With withou Creek

Lichen Identification Data Sheet Jefferson National Forest --1994 Date:

Rogers	National	Recreation	Area	Plot.	No.	9

Date: Collector 7/25/84 Tillumy S. Koway

ite: Virginia

ounty: 

Meyson

3560 BT

Lichen Specialist

J. De

		Data to	enter	l						
	Species name	Sp. code	Abund	Bag #	А	Bag #	A	Bag #	Α	Comments
	Anaptychia palmulata	301			123		123		123	
	Anzia copodes	402			123		123		123	
1	Bryoria bicolor	602			123		123		123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123	<del></del>	123		123	
	Canoparmelia caroliniana	802			123		123		123	
1	Cetraria americana				123		123		123	
H	Cetraria ciliaris	1006			123	······································	123		123	
	Cetraria . fendleri	1008			123		123		123	
1	Cetraria . oakesiana	1012	.,	27	12.3	44	12,3	41	12(3)	
-	Cetraria orbata	1013			123		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
7	Cetrelia chicitae	1102	J		12(3)		123		123	
	Cetrelia olivetorum	1104			123		123		123	
	Cladonia bacillaris	1203			123		123		123	
	Ciadonia caespiticia	1207			123	<del>// /</del>	123		123	
	Cladonia chlorophaea s.l.	1210			123		123		123	
$\vdash$	Cladonia coniocraea	1211		1	123		12.,3		123	
-	Cladonia cristatella	1212			123		123		123	
1	Cladonia cylindrica	1214			123		123		123	
1	Cladonia didyma	1243	3	77	12.3		123		123	
	Cladonia floerkeana				123		123		123	
11	Cladonia macitenta	1225			123		123		123	
4	Cladonia mateocyr,tha	1245			123		123		123	
4	Cladonia ochroch ora	1228			123		123		123	
	Cladonia parasitica	1229		1	123		123		123	
	Cladonia peziziformis	1242	<u> </u>		123		123		123	
	Cladonia ramulosa(pityrea)	1234			123		123		123	
	Cladonia ravenelii			<b></b>	123		123		123	
<b>  </b>	Cladonia simulata	1246			123		123		123	
$\vdash$	Cladonia squamosa	1236			123		123		123	
-	Cladonia subradiata	1-1			123		123		123	
1-	Cladonia vulcanica			<u> </u>	123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Coccocarpia el diloxys	1304		<b>†</b>	123		123		123	
	Collema conglomeratum	1 707			123		123		123	
-	Collema nigrescens	1412			123		123		123	
$\vdash$	Collema subflaccidum	1415	<del>                                     </del>	<u> </u>	123		123		123	
$\vdash$	Everniastrum catawbiense	2501		ļ	123		123		123	
-,-		2601	4	J .	6123		12(3)	12 (	123	
	Flavoparmelia caperata	2702		J	123		123		123	
-	Flavopunctelia flaventior	2802			123		123		123	
<u> </u>	Heteroderm. appalachensis	2804		<b></b>	123		123		123	
⊪	Heterodermia casarettiana	<del></del>		<u> </u>	123		123		123	
	Heterodermia crocea	2806			123		123		123	
	Heterodermia granulifera	2812		<u> </u>		<u></u>	123		123	
<b></b>	Heterodermia hypoleuca	2813	<del>}</del>	122	123				123	
2	Heterodermia leucomelos	2814	4	46	1.23		123		123	
	Heterodermia microphylla	<u> </u>	<del> </del>	<b></b>	123				123	
<b> </b>	Heterodermia obscurata	2816	<b></b>	<b> </b>	123		123		123	
	Heterodermia speciosa	2822	<u> </u>	<b> </b>	123		123		123	
	Heterodermia squamulosa	2823			123		123		123	
	Hyperphyscia adglutinata	2901	<b></b>	<b> </b>	123	<u> </u>	123		123	
	Hyperphyscia syncolla	J	<b></b>	<b></b>	123		123		123	
لکر	Hypogymnia krogiae	3110		<b>}</b>	123		123		123	
6	Hypogymnia physodes	3116	<b>ン</b>	9	1,2.3		123		1	

LIHRE wilson Creck #9

7/25/4

		Data to	enter							
	Species name	Sp. code	Abund	Bag #	A	Bag #	Α	Bag #	A	Comments
Ħ	Hypotrac. croceopustulata	3201			123		123		123	337773
	Hypotrac. gondylophora	3205			123		123		123	
	Hypotrachyna livida	3208			123		123		123	
	Hypotrachyna novella				123		123		123	
	Hypotrachyna osseoalba	3210		<del></del>	123		123		123	
$\vdash$	Hyptrachyna pustulifera	3215			123		123		123	
	Hypotrachyna revoluta	3216			123		123		123	
	Hypotrachyna showmanii	3218			123		123		123	
-	Hypotrachyna thysanota	3220		<b></b>	123		123		123	
7	Imshaugia aleurites	3301	3	<i>i9</i>	12(3)		123		123	
	Imshaugia placorodia	3302			123		123		123	
	Lept. austroamericana			<b> </b>	123		123		123	
$\parallel$	Leptogium corticola	3609			123		123		123	
$\parallel$	Leptogium cyanescens	3611			123		123		123	
$\vdash$	Leptogium laceroides	3624			123		123		123	
$\parallel$	Leptogium teretiusculum	JUET			123		123		123	
	Lobaria pulmonaria	3905			123		123		123	
-		3906			123		123		123	
	Lobaria quercizans	3900			123		123		123	
	Lobaria ravenelii	4008			123		123		123	
$\parallel - \parallel$	Melanelia halei	4008	<b></b>	<del> </del>	123		123		123	
	Melanelia subaurifera	4101	مور	31	12.3		123		123	
2	Menegazzia terebrata			47						
	Myelochroa aurulenta	4201		<b></b>	123		123		123	
	Melochroa galbina	4202			123		123		123	
	Myelochroa metarevoluta	4203			123		123		123	
	Nephroma helveticum	4403			123		123		123	
	Pannaria leucophaea	4703			123		123		123	
	Pannaria leucosticta	4704		ļ	123		123		123	
_	Pannaria rubiginosa	4711		ļ	123		123		123	
أسني	Pannaria tavaresii	4713			123		123	<b>3</b> 94	123	29(2) 11(3)
1	Parmelia squarrosa	4805	7	9	12(3)	14	12.3		12(3)	21(2) //4)
	Parmelia sulcata	4806			123		123		123	
	Parmeliella corallinoides	4902			1,.2,.3		123		123	
	Parmeliella tryptophylla	4904			123	7/	123		123	
1.	Parmelinopsis horrescens	5101	1,5	18	1(2)3	16	12.(3)		123	
4	Parmelinopsis minarum	5102	J.	32	1.(2).3		123		123	
	Parmelinopsis spumosa	5104			123		123		123	
	Parmeliopsis hyperopta	5202			123		123		123	
	Parmotrema arnoldii	5301			123		123		123	· · · · · · · · · · · · · · · · · · ·
	Parmotrema austrosinese	5302			123		123		123	
12	Parmotrema crinitum	5305	ر.	<i>33</i> (	0)123		123		123	
	Parmotrema eurysacum	5310			123		123		123	
	Parmotrema cf gardneri	5328			123		123		123	
13	Parmotrema hypotropum	5314	<b>*</b>	9	1,(2),3		123		123	
14	Parmotrema margaritatum	5318	کی	74	1243		123		123	
	Parmotrema mellissii	5319			123		123		123	
	Parmotrema michauxianum	5320			123		123		123	: 
	Parmotrema perforatum	5323			123		1.,2.,3		123	
15	Parmotrema perlata	5303	<b>بن</b> ہ	7.1	(1).2.3	10	162.3		123	
	Parmotr. praesorediosum	5324			123		123		123	
	Parmotrema rampoddense	5326			123		123		123	
	Parmotrema rigidum	5327			123		123		123	
	Parmotrema stuppeum	5329			123		123		123	
╟─╂	Parmotrema subtinctorum	5331			123		123		123	
	Parmotrema subsumptum				123		123		123	
	Parmotrema tinctorum	5333		<del> </del>	123		123		123	
	Parmotrema ultralucens	5334			123		123		1,.23	
N	Parmotrema xanthinum	5335			123		123		123	
-1		5601			123		123		123	
4	Phaeophyscia adiastola	5603			123		123		123	
	Phaeophyscia ciliata	5604			123		123		123	
	Phaeophys. erythrocardia						123		123	
	Phaeophyscia pusilloides Phaeophyscia rubropulchra	5613 5614	J	13	123		123		123	
16	LUNDARARANETTS (HDFOIDHIEDES)	1 3014	. 🕶	/4	11.633		1,, 6,, 3			

		Data to	enter	1	1		T			
· · · · · · · · · · · · · · · · · · ·	Species name	Sp. code	Abund	Bag #	A	8ag #	A	Bag #	A	Comments
7	Physcia aipolia	5702			123		123		123	
.)	Physcia americana	5704			123		123		123	
	Physcia crispa				123		123		123	
	Physcia millegrana	5716			123	***************************************	123		123	
	Physcia neogaea	5718	1		123		123		123	<u> </u>
12	Physcia stellaris	5723		16	1(2).3		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901			123		123		12.,3	
	Platismatia tuckermannii	6106			123		123		123	
	Pseudevernia ctadonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123		123	
	Psudocypheliaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			123		123		123	
	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			123		123		123	
	Punctelia rudecta	6707			123		123		123	
	Punctelia semansiana	6708			123		123		123	
17	Punctelia subrudecta	6711	<u>.3</u>	17	12.(3)		123		123	
	Pyxine caesiopruinosa	6803			123		123		123	
	Pyxine sorediata	6808			123		123		123	
15	Ramalina americana	6901	3	10	(1)23	22	1(2).3	26	12.③	20(3) 2/01 443
	Ramalina stenospora	6932			123		123		123	20(3) 21(1) 443
	Ramalina willeyi	6940			123		123		123	
	Rimelia cetrata	7101			123		123		123	
	Rimelia diffractaica	7103			123		123		123	
70	Rimelia reticulata	7104	رر	4	12(3)	64	12.43		123	
	Rimelia simulans	7105			123		123		123	
	Rimella subisidiosa	7106			123		123		1.,2.,3	
	Sticta weigelii	7506			123		123		123	<u> </u>
	Usnea aciculifera	8001			123		123		123	
4/	Usnea ceratina	8014	_/	47	(1).23	48	<i>(</i> D.23		123	
	Usnea cornuta	8019			123		123		123	
	Usnea dasaea	8020			123		123		123	
12	Usnea hesperina	8040	لق.	23 0	12.(3)		123		123	
	Usnea madeirensis	8047			123		123		123	
	Usnea mutabilis	8050			23		123		123	
	Usnea occidentalis	8054			123		123		123	
13	Usnea rubicunda	8063	ري	48	12(3)	44	12.(3)		123	
24	Usnea strigosa	8069	3	14	1.(2)3	47	(1.23	50	1(2).3	49(2)
<b> </b>	Usnea subfloridana	8072			123		12,.3		123	
	Usnea subscabrosa	8076			123		123		123	<del></del>
	Xanthoria candelaria	8201			123		123		123	
	Vuipicida viridis	1020		<u> </u>	123	<i>#</i> 3	123		123	A+C
25	Paralingues to	5100	س بی	35	1/2.3	9	12.3		123	177
26	Unbilitele manuelo	<b>F</b>		7.7	Q.23		123		123	d- 1= 2+
	Une to	8000		24	①23		123		123	too letty
					123		123		123	
<b></b>		<u> </u>			123		123		123	
┝┈╢					123		123		123	squamules only-exclude
-1	Cladonia squamules only			_/3	12.3		123		123	crustose forms-exclude
	Crustose lichen				123				123	bryophyte-exclude
	bryophyte				123		123		123	Pri Achit re-evenna
					123				123	
					123		123		123	
		<b></b>			123		163		1	
-		<del></del>								
_1						·				

Lichen Communities PLOT PACKING SLIP FHM, 1994
Plot hex number: 9 State: 1/A County: Gray Sur
Plot hex number: 9 State: VA County: Gray Sm.  Date: 7/25/94 Crew Member's Name: 5- Powers Crew number: 1
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY!
Record the time lichen sampling began: Record the time lichen sampling ended:  Total time spent sampling the plot:  10:45 aw  10:45 aw  16:45 aw
Comments about the plot, the lichens, the vegetation, and/or the weather:  Mixed Oak Overstry with done theologister understry.  Party Clary. Clar. 3560 SW Aspect
REMEMBER:  Record the abundance code on each bag!  Remember to look for the common species.  Try to put only one species in each bag.

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 9 Elevation 3,560 ft

Near Little Wilson Creek, 500 ft N of junction with Big Wilson Creek, below Bearpen Ridge in Little Wilson Creek Wilderness. Mixed oak forest with rhododendron understory. Approx. 4.8 miles S/SW of Troutdale.

Collected by Tom Blevins & Susan Powers
July 25, 1994 No. 9-

Cobin Creek

Lichen Identification Data Sheet Jefferson National Forest --1994

Mt. Rogers National Recreation Area Plot. No. \_\_/c

Date:

1/25/9x

ate:

Virginia Llayson

488068

Collector Z

J. Dev

<u></u>		Data to	enter Abund	8ag #				0		
	Species name	Sp. code	Abunc	Day #	A .	Bag #	A	Bag #		Comments
	Anaptychia palmulata	301	ļ		123		123		123	
	Anzia copodes	402			123		123		123	
	Bryoria bicolor	602	<b></b>		123	<del> </del>	123	<u> </u>	123	
	Bryoria furcellata	609			123		123		123	
	Candelaria concolor	8301			123		123		123	
	Candelaria fibrosa	8302			123		123		123	
	Canoparmelia caroliniana	802			123		123		123	
	Cetraria americana				123		123		123	
	Cetraria ciliaris	1006			123		123		123	
-	Cetraria . fendleri	1008			123		123		123	
7	Cetraria . oakesiana	1012	3	7	12(3)	14	12/.3	38	12(3	
1	Cetraria orbata	1013	J-	10	12(3)		123		123	
	Cetrelia cetrarioides s.l.	1101			123		123		123	
	Cetrelia chicitae	1102			123		123		123	
	Cetrelia olivetorum	1104			123		123		123	
		1203	<del> </del>	<b></b>	123		123	•	123	
<del>,</del>	Cladonia badillaris		<del>  ,                                   </del>		1260		123			
	Cladonia caespiticia	1207	<u> </u>	18					123	
	Cladonia chlorophaea s.l.	1210	ļ	<b></b>	123		12.,3		123	
	Cladonia coniocraea	1211			123		123		123	
	Cladonia cristatella	1212	<u> </u>		123		123		123	
	Cladonia cylindrica	1214			123		123		123	
	Cladonia didyma	1243			123		123		123	
	Cladonia floerkeana				123		123		123	
7	Cladonia macilenta	1225	3	18	②23	Zlo ef	12		123	
	Cladonia mateocyatha	1245			123		123		123	
1	Cladonia ochrochlora	1228	J	39	12(3)		123		123	
4	Cladonia parasitica	1229			123		123		123	
	Cladonia peziziformis	1242			123		123		123	
-	Cladonia ramulosa(pityrea)	1234			12		123		123	
		1.537			123		123		123	
	Cladonia ravenelli	1346			123		123		123	
{	Cladonia simulata	1246					123		123	
	Cladonia squamosa	1236			123					
	Cladonia subradiata				123		123		123	
	Cladonia vulcanica				123		123		123	
	Coccocarpia erthroxyli	1303			123		123		123	
	Coccocarpia palmicola	1304			123		123		123	
	Collema conglomeratum				123		123		123	
	Collema nigrescens	1412			123		123		123	
	Collema subflaccidum	1415			123		123		123	
6	Everniastrum catawbiense	2501	*	Ž,	1(2)3		123		123	
-	Flavoparmelia caperata	2601	4	10	1.223	13 0	۶۸.23	٠,٠	12(3) 4	2/4) 7(3)
	Flavopunctelia flaventior	2702	3	354	12(3)		123		123	
~	Heteroderm, appalachensis	2802			123		123		123	
	Heterodermia casarettiana	2804			123		123		123	
	······································						123		123	
	Heterodermia croces	2806			123				123	······································
	Heterodermia granulifera	2812			123		123		123	
	Heterodermia hypoleuca	2813			123		123			
	Heterodermia leucomelos	2814			123		123		123	
	Heterodermia microphylla				123		123		123	
	Heterodermia obscurata	2816			123		123		123	
	Heterodermia speciosa	2822			123		123		123	
	Heterodermia squamulosa	2823			123		123		123	
	Hyperphyscia adglutinata	2901			123		123		123	
	Hyperphyscia syncolla				123		123		123	
	HADELDUARCIS SALICOUS									
	Hypogymnia krogiae	3110	J	16	12(3)		123	1	123	

Species name	( <del></del>	11 -	1	<del></del>	<del></del>	-,,,		Ţ		
Hypotractyrea promotephora   3205   1,2,3			<del></del>	0	ļ		<b></b>		ļ	
Proportion   1.2.3			I Abuna.	Bag #		Bag #		I Bag #		Comments
Phytotradyna lowids				<u> </u>	Ţ			<u> </u>	<del></del>	
Hypotrachyna novella	)							<del> </del>		
Hypotrachyna cessessiba   3210	)	3208	-		<del></del>			<u> </u>		
Hypotardyna gwofuts   3215   1,2,3		1 2212		<del> </del>			<del></del>		<del></del>	<u> </u>
Hypotractyma revokult   3216		<		<b> </b>				<del> </del>		
Hypotractyna showmani   3218	}	-	<del> </del>	<b> </b>				<del> </del> -		
Pripotrachyma chysanota   3220			<del> </del>	<b> </b>				<del> </del>		
Inshauga aleurites				<b> </b>				<del> </del>		
Institución placorodia   3302   1.2.3   1.2.			<del> </del>	1				<del> </del>		
Leptogum corticola   1,2,3		<del></del>	<u> </u>	<b> </b>			7	<u> </u>		
Leptogum corticola   3609   1.2.3		3302		<b> </b>	······································			<del> </del>		
Leptoquim cyanescens   3611   1,2,3		3609		<b> </b>				<u> </u>		
Leptoglum Interoides   3624   1,2,3				<b> </b>						· · · · · · · · · · · · · · · · · · ·
Leptoquim teretisuculum   1,2,3   1,		4 h		ļ						<u> </u>
Lobaria pulmonaria   3305   1,2,3		3027		<b> </b>						
Lobaria querdzans   3906		2005				<del> </del>			,	<u> </u>
Lobaria raveneiii		{}		<b> </b>						<del> </del>
Melanelia hale    4008		3300	L	<b></b>						
Melanella subaurifera		1 4000	-X.	ic						
Meregazzia terebrata   4101		( <u> </u>		- 17						
Myelochroa aurulenta				<b> </b>						
Melochroa galbina		(		<del> </del>			**************************************			<del> </del>
Myelochroa metarevoluta		(	3	1112						
Nephroma helveticum				40		<del></del>				
Pannaria leucophaea   4703   1.2.3				<u> </u>		***************************************	······································			
Pannaria leucosticta					<del></del>	<del></del>			<del></del>	
Pannaria rubiginosa Pannaria rubiginosa Pannaria tavaresii Pannaria t						··				
Pannaria tavaresii						<del></del>				
Parmelia squarrosa										
## Parmeliela corallinoides   ## Parmeliella corallinoides   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmeliella tryptophylla   ## Parmelinopsis horrescens   ## Parmelinopsis shorrescens   ## Parmelinoscens   ## P				ļ						
Parmeliella corallinoides  Parmeliella tryptophylia  4904  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  Parmeliella tryptophylia  4904  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  Parmelinopsis brorescens  Formelinopsis minarum  5102  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  1.2.3  Parmelinopsis syumosa  Formelinopsis syumosa  Formelinopsis pomosa  Formelinopsis syumosa  I.2.3  Parmotrema perforatum  5320  Formelinopsis syumosa  Formelinopsis syumosa  Formelinopsis syumosa  I.2.3									123	
Parmeliella tryptophylla				40		/2	· · · · · · · · · · · · · · · · · · ·	28_		
Parmetinopsis horrescens Parmelinopsis minarum 5102 1.23 1.2							<del></del>			
Parmelinopsis minarum   5102   1.2.3   1.2.3   1.2.3       Parmelinopsis spumosa   5104   1.2.3   1.2.3   1.2.3   1.2.3       Parmelinopsis spumosa   5104   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema arnoldii   5301   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema arnoldii   5301   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema austrosinese   5302   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema crinitum   5305							<del></del>			
Parmelinopsis spumosa 5104 1.23 1.23 1.23 1.23 Parmeliopsis hyperopta 5202 1.23 1.										
Parmotrema arnoldii 5301 1.23 1.2.							<del></del>			
Parmotrema arnoldii   5301   1.2.3   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema austrosinese   5302   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema crinitum   5305							<del></del>			
Parmotrema austrosinese         5302         123         123         123         123           / ✓ Parmotrema crinitum         5305         ✓ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹										
// Parmotrema crinitum         5305         /+         £3         /+         1.2.3         1.2.3         1.2.3           Parmotrema eurysacum         5310         1.2.3         1.2.3         1.2.3         1.2.3           Parmotrema cf gardneri         5328         1.2.3         1.2.3         1.2.3           Parmotrema hypotropum         5314         1.2.3         1.2.3         1.2.3           Parmotrema melissii         5318         1.2.3         1.2.3         1.2.3           Parmotrema michauxianum         5320         1.2.3         1.2.3         1.2.3           Parmotrema michauxianum         5320         1.2.3         1.2.3         1.2.3           Parmotrema perforatum         5323         1.2.3         1.2.3         1.2.3           Parmotrema perforatum         5323         1.2.3         1.2.3         1.2.3           Parmotrema perforatum         5323         1.2.3         1.2.3         1.2.3           Parmotrema perforatum         5324         1.2.3         1.2.3         1.2.3           Parmotrema rampoddense         5326         1.2.3         1.2.3         1.2.3           Parmotrema subpeum         5327         1.2.3         1.2.3         1.2.3           Pa									<del>}</del>	
Parmotrema eurysacum   S310   1.2.3   1.2.3   1.2.3   1.2.3       Parmotrema cf gardneri   S328   1.2.3   1.2.3   1.2.3       Parmotrema hypotropum   S314   1.2.3   1.2.3   1.2.3       Parmotrema margaritatum   S318   1.2.3   1.2.3   1.2.3       Parmotrema margaritatum   S318   1.2.3   1.2.3   1.2.3       Parmotrema mellissii   S319   1.2.3   1.2.3   1.2.3       Parmotrema michauxianum   S320   1.2.3   1.2.3   1.2.3       Parmotrema perforatum   S323   1.2.3   1.2.3   1.2.3       Parmotrema perlata   S303   4   40   40   40   40   40   40		)			_123					
Parmotrema cf gardneri   5328   1.2.3   1.2.3   1.2.3       Parmotrema hypotropum   5314   1.2.3   1.2.3   1.2.3       Parmotrema margaritatum   5318   1.2.3   1.2.3   1.2.3       Parmotrema mellissii   5319   1.2.3   1.2.3   1.2.3       Parmotrema michauxianum   5320   1.2.3   1.2.3   1.2.3       Parmotrema perforatum   5323   1.2.3   1.2.3   1.2.3       Parmotrema perforatum   5323   1.2.3   1.2.3   1.2.3       Parmotrema perlata   5303			<i>y</i> -	23 4		4				
Parmotrema hypotropum   5314   1.23								·····		
Parmotrema margaritatum   5318   1.23   1.23   1.23     Parmotrema mellissii   5319   1.23   1.23   1.23     Parmotrema michauxianum   5320   1.23   1.23   1.23     Parmotrema perforatum   5323   1.23   1.23   1.23     Parmotrema perforatum   5323   1.23   1.23   1.23     Parmotrema perlata   5303	Parmotrema of gardneri									
Parmotrema mellissii   S319   1.23   1.23   1.23   1.23				<u> </u>					<del></del>	
Parmotrema michauxianum   5320   1.23   1.2.					<del></del>					
Parmotrema perforatum   5323   1.23   1.23   1.23   1.23										
Parmotrema perlata   5303   F   F   F   F   F   F   F   F   F	Parmotrema michauxianum								·	
Parmotr. praesorediosum       5324       123       123       123         Parmotrema rampoddense       5326       123       123       123         Parmotrema rigidum       5327       123       123       123         Parmotrema stuppeum       5329       123       123       123         Parmotrema subtinctorum       5331       123       123       123         Parmotrema subsumptum       123       123       123       123         Parmotrema tinctorum       5333       123       123       123         Parmotrema uitralucens       5334       123       123       123         Parmotrema xanthinum       5335       123       123       123         Phaeophyscia adiastola       5601       123       123       123         Phaeophyscia ciliata       5603       123       123       123         Phaeophyscia pusilloides       5613       27       123       123       123	Parmotrema perforatum	5323					123		<del></del>	
Parmotrema rampoddense         5326         123         123         123           Parmotrema rigidum         5327         123         123         123           Parmotrema stuppeum         5329         123         123         123           Parmotrema subsuriptum         123         123         123           Parmotrema subsumptum         123         123         123           Parmotrema tinctorum         5333         123         123         123           Parmotrema ultralucens         5334         123         123         123           Parmotrema xanthinum         5335         123         123         123           Phaeophyscia adiastola         5601         123         123         123           Phaeophyscia ciliata         5603         123         123         123           Phaeophyscia pusilloides         5613         27         5123         123         123			4	40						
Parmotrema rigidum         5327         1.2.3         1.2.3         1.2.3           Parmotrema stuppeum         5329         1.2.3         1.2.3         1.2.3           Parmotrema subtinctorum         5331         1.2.3         1.2.3         1.2.3           Parmotrema subsumptum         1.2.3         1.2.3         1.2.3           Parmotrema tinctorum         5333         1.2.3         1.2.3         1.2.3           Parmotrema ultralucens         5334         1.2.3         1.2.3         1.2.3           Parmotrema xanthinum         5335         1.2.3         1.2.3         1.2.3           Phaeophyscia adiastola         5601         1.2.3         1.2.3         1.2.3           Phaeophyscia ciliata         5603         1.2.3         1.2.3         1.2.3           Phaeophyscia pusilloides         5613         27         51.2.3         1.2.3         1.2.3										
Parmotrema rigidum         5327         123         123         123           Parmotrema stuppeum         5329         123         123         123           Parmotrema subtinctorum         5331         123         123         123           Parmotrema subsumptum         123         123         123         123           Parmotrema tinctorum         5333         123         123         123         123           Parmotrema ultralucens         5334         123         123         123         123           Parmotrema xanthinum         5335         123         123         123         123           Phaeophyscia adiastola         5601         123         123         123         123           Phaeophyscia ciliata         5603         123         123         123         123           Phaeophyscia pusilioides         5613         27         123         123         123					12.,3		123			
Parmotrema subtinctorum         5331         1.2.3         1.2.3         1.2.3           Parmotrema subsumptum         1.2.3         1.2.3         1.2.3           Parmotrema tinctorum         5333         1.2.3         1.2.3         1.2.3           Parmotrema ultralucens         5334         1.2.3         1.2.3         1.2.3           Parmotrema xanthinum         5335         1.2.3         1.2.3         1.2.3           Phaeophyscia adiastola         5601         1.2.3         1.2.3         1.2.3           Phaeophyscia ciliata         5603         1.2.3         1.2.3         1.2.3           Phaeophys. erythrocardia         5604         1.2.3         1.2.3         1.2.3           Phaeophyscia pusilloides         5613         27         51.2.3         1.2.3         1.2.3		5327			123		123			
Parmotrema subtinctorum         5331         1.2.3         1.2.3         1.2.3           Parmotrema subsumptum         1.2.3         1.2.3         1.2.3           Parmotrema tinctorum         5333         1.2.3         1.2.3         1.2.3           Parmotrema ultralucens         5334         1.2.3         1.2.3         1.2.3           Parmotrema xanthinum         5335         1.2.3         1.2.3         1.2.3           Phaeophyscia adiastola         5601         1.2.3         1.2.3         1.2.3           Phaeophyscia ciliata         5603         1.2.3         1.2.3         1.2.3           Phaeophys. erythrocardia         5604         1.2.3         1.2.3         1.2.3           Phaeophyscia pusilloides         5613         27         91.2.3         1.2.3         1.2.3	Parmotrema stuppeum	5329			123		123			
Parmotrema subsumptum       1.2.3       1.2.3       1.2.3         Parmotrema tinctorum       5333       1.2.3       1.2.3       1.2.3         Parmotrema ultralucens       5334       1.2.3       1.2.3       1.2.3         Parmotrema xanthinum       5335       1.2.3       1.2.3       1.2.3         Phaeophyscia adiastola       5601       1.2.3       1.2.3       1.2.3         Phaeophyscia ciliata       5603       1.2.3       1.2.3       1.2.3         Phaeophys. erythrocardia       5604       1.2.3       1.2.3       1.2.3         Phaeophyscia pusilloides       5613       27       1.2.3       1.2.3       1.2.3		5331			123		123		123	
Parmotrema tinctorum   5333   1.2.3   1.2.3   1.2.3       Parmotrema ultralucens   5334   1.2.3   1.2.3   1.2.3       Parmotrema xanthinum   5335   1.2.3   1.2.3   1.2.3       Phaeophyscia adiastola   5601   1.2.3   1.2.3   1.2.3       Phaeophyscia ciliata   5603   1.2.3   1.2.3   1.2.3       Phaeophys. erythrocardia   5604   1.2.3   1.2.3   1.2.3       Phaeophyscia pusilloides   5613   27   27   27   27   27   27   27   2	Parmotrema subsumptum						123		123	
Parmotrema ultralucens         5334         1.2.3         1.2.3         1.2.3           Parmotrema xanthinum         5335         1.2.3         1.2.3         1.2.3           Phaeophyscia adiastola         5601         1.2.3         1.2.3         1.2.3           Phaeophyscia ciliata         5603         1.2.3         1.2.3         1.2.3           Phaeophys. erythrocardia         5604         1.2.3         1.2.3         1.2.3           Phaeophyscia pusilloides         5613         27         91.2.3         1.2.3         1.2.3		5333							123	
Parmotrema xanthinum   5335   1.2.3   1.2.3   1.2.3									123	
Phaeophyscia adiastola   5601   1.2.3   1.2.3   1.2.3       Phaeophyscia ciliata   5603   1.2.3   1.2.3   1.2.3     Phaeophys. erythrocardia   5604   1.2.3   1.2.3   1.2.3     Phaeophyscia pusilloides   5613   27   27   27   27   27   27   27   2									123	
Phaeophyscia ciliata         5603         123         123         123           Phaeophys. erythrocardia         5604         123         123         123           Phaeophyscia pusilloides         5613         27         123         123         123	·· 3·····								123	
Phaeophys. erythrocardia         5604         123         123         123           Phaeophyscia pusilloides         5613         27         5123         123         123		<del></del>								
/ Phaeophyscia pusilloides 5613 2 27 (\$123 123 123					123				123	
				27 4					123	
TIBENDAYSCA PURUSHAN JOIT I THE REAL FIRESTEE TO LINCATE TO THE TOTAL	/*/ Phaeophyscia rubropulchra	5614	J.	27	12(3)	45	12(3)	J'Z (	<b>2</b> 123	

7/25/94

		Data to	enter							
	Species name	Sp. code	Abund.	Bag #	A	Bag #	A	Bag #	A	Comments
7	Physcia alpolia	5702			123		123		123	
$\dashv$	Physcia americana	5704		-	123	<u> </u>	123	ļ	123	
	Physcia crispa	1			123		123		123	
	Physica millegrana	5716			123		123		123	
	Physica neogaea	5718			123		123		123	
	Physcia stellaris	5723			123		123		123	
	Physciella chloantha				123		123		123	
	Physconia detersa	5901			123		123		123	
18	Platismatia tuckermannii	6106	3	33	(1) 23	7	12(3)	33	12(3)	
	Pseudevernia cladonia	6301			123		123		123	
	Pseudevernia consocians	6302			123		123		123	
	Psudocyphellaria aurata				123		123		123	
	Psudocyphellaria crocata	6404			123		123		123	
	Punctelia appalachensis	6701			123		123		123	
	Punctelia bolliana	6702			123		123		123	
	Punctelia missouriensis	6705			123		123		123	
14	Punctelia rudecta	6707	J	31	12.3	\$	16.2)	6	12(3)	
	Punctelia semansiana	6708			123		123		123	
1.1	Punctella subrudecta	6711	J	17	12.3	10	12(3)	44	1 (2.)3	
	Pyxine caesiopruinosa	6803			123		123		123	
	Pyxine sorediata	6808			123		123		123	
-/	Ramalina americana	6901	.5/	45	12(3)	15	(12.23	49	1 (2).3	12(1) 36(2)
÷	Ramalina stenospora	6932		<del>                                     </del>	123	· · · · · · · · · · · · · · · · · · ·	123		123	
_	Ramalina willeyi	6940			123		123		123	<u> </u>
	Rimelia cetrata	7101			123		123		123	
-	Rimelia diffractaica	7103		ļ	123		123		123	<u> </u>
_	Rimelia reticulata	7104			123	* '' - '' - ' · · · · · · · · · · · · · ·	123		123	1
	Rimelia simulans	7105			123		123		123	
1	Rimelia subisidiosa	7106			123		123		123	
7	Sticta weigelii	7506			123		123		123	
	Usnea aciculifera	8001			123		123		123	
_	Usnea ceratina	8014			123		123		123	
	Usnea cornuta	8019			123		123		123	
1	Usnea dasaea	8020			123		123		123	
_	Usnea hesperina	8040			123		123		123	
	Usnea madeirensis	8047			123		123		123	
	Usnea mutabilis	8050			123		123		123	
	Usnea occidentalis	8054			123		123		123	
7	Usnea rubicunda	8063			123	······································	123		123	
1	Usnea strigosa	8069	フ	54	12(3)	53	1243	5/	12.(3)	47(3) 1(2)
	Usnea subfloridana	8072		41	(1).23		123		123	49 (1) 52 (3 50 (2) 21 (1)
	Usnea subscabrosa	8076			123		123		123	50(1) 21(7)
	Xanthoria candelaria	8201			123		123		123	410 42(1)
	Vulpicida viridis	1020			123		123		123	171
	Shorai M.		3	24	12.3		123		12.,3	
					123		123		123	
7					123		123		123	
7					123		123		123	
┪	icensa			43	1(2)3		123		123	to ratty
					123		123		123	
7	Cladonia squamules only				123		123		123	squamules only-exclude
	Crustose lichen				123		123		123	crustose forms-exclude
_	bryophyte				123		123		123	bryophyte-exclude
-					123		123		123	
					123		123		123	
1					123		123		123	
$\dashv$										

Lichen Communities PLOT PACKING SLIP FHM, 1994								
Plot hex number: 10 State: VA County: Gray Son  Total  Date: JJy 25 94 Crew Member's Name: 5 Power Crew number: 1								
Date: July 25 94 Crew Member's Name: 5 Power Crew number: 1								
This will be part of the permanent record for this plot. PLEASE COMPLETE IT FULLY!								
Record the time lichen sampling began:  Record the time lichen sampling ended:  Total time spent sampling the plot:    12.45 pm   2.45 p								
Comments about the plot, the lichens, the vegetation, and/or the weather:  Mixed Brefspice, Fir Yellow Birth, Sign Maple Drissing with  Ash and Service bery. Open understay  REMEMBER:  Record the abundance code on each bag!  SSW Aspect								
Remember to look for the common species. The Charge								

VIRGINIA. GRAYSON CO.:

Mt. Rogers NRA Plot No. 10 Elevation 4,820 ft
Cabin Creek, 1,000 ft S of its junction with Virginia
Highland Trail (No. 337) and just N of Grayson
Highlands State Park Boundary. Mixed spruce, fir &
hardwood forest. Approx. 6.3 miles SW of Troutdale.

Collected by Tom Blevins & Susan Powers
July 25, 1994 No. 10-