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CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada



BOTANICAL STUDIES
IN THE YUKON AND NORTHWEST TERRITORIES
CARRIED OUT IN 1972 IN CONNECTION WITH
GEOLOGICAL SURVEY OF CANADA FIELD PARTIES
RUN BY DR. O. HUGHES AND DR. N. RUTTER

by

C.D. Bird

Department of Biology
University of Calgary

FEB 1973

OPEN FILE 227

Price, \$10.00

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INTRODUCTION

The writer, in company with Mr. G. Benson, carried out botanical work in the Yukon and the Northwest Territories, from June 28 to July 14, 1972, in connection with the Geological Survey of Canada field parties of Dr. O. L. Hughes and Dr. N. Rutter (Personal Services Contract - Purchase Order 90125). The overall purpose of this research was to study lichens and associated flora in order to obtain correlations between their ecology and distribution with respect to particular rock types and glaciated versus nonglaciated areas.

Phase I of this research, carried out from June 30 to July 7, was involved with studies in the vicinity of Dr. Hughes' camp at Chappie Lake in the Yukon. Thirty-six sites, 23 above timberline and 13 below, were investigated. These included 27 sites in nonglaciated areas (esp. in the Knorr Range, Wernecke Mountains and Richardson Mountains) and 9 sites in nonglaciated areas.

Phase II, carried out from July 8 to July 14, was involved with studies in the vicinity of Dr. Rutter's camp at Wrigley, N.W.T. Forty-three sites, 31 above timberline and 12 below, were investigated. These included 38 sites in glaciated areas and 5 sites in nonglaciated areas.

LITERATURE REVIEW

Bird (1972) should be consulted for a history of previous botanical work in the area. An important new publication is that of Holmen and Scotter (1971) on the bryophytes of the Reindeer Preserve in the Mackenzie River Delta.

THE AREAS STUDIED

Appendix I contains, in chronological order, all of the sites examined and gives the geographical locations and descriptions of each. As already indicated, the first half of the Sites were in the Yukon, mainly close to Chappie Lake, whereas the last half were in the Northwest Territories close to Wrigley.

Additional descriptions of the Chappie Lake and Wrigley areas will appear in the reports of both Dr. Hughes' and Dr. Rutter's parties.

CLIMATE

Summaries of the climate of the region are given by Kendrew and Currie (1955) and Kendrew and Kerr (1955). Two stations, Aklavik and Fort Simpson, both in the Northwest Territories are reasonably close to the areas studied.

The main air stream is from the NW and W. Winter is long and cold, summer is short and warm. Aklavik's mean of 16° is considerably colder than the 24° of Fort Simpson. The warmest months are July and August, the coldest is January. Precipitation averages 9.2 inches at Aklavik and 13.0 inches at Fort Simpson. Most of it falls during the summer. The ground tends to be covered with snow for at least 8 months.

	J	F	M	A	M	J	J	A	S	O	N	D	Mean or Total
Temp. (°F)	-18	-11	1	26	44	56	62	57	46	29	4	-12	24
Prec. (in.)	0.7	0.7	0.5	0.7	1.4	1.5	2.0	1.5	1.3	1.1	0.8	0.8	13.0

Table 1. Mean temperature and precipitation per month at Fort Simpson based on 32 years temperature and 42 years precipitation observations (Kendrew and Currie 1955).

	J	F	M	A	M	J	J	A	S	O	N	D	Mean or Total
Temp. (°F)	-18	-17	9	9	31	49	56	50	38	20	-3	-17	16
Prec. (in.)	0.5	0.4	0.3	0.5	0.5	0.8	1.4	1.4	0.9	0.8	0.7	0.4	9.2

Table 2. Mean temperature and precipitation per month at Aklavik based on 25 years of observation (Kendrew and Kerr 1955).

METHODS

Most of the sites were visited by means of a helicopter. Upon reaching an area a visual understanding of the landform-vegetation types was gained and then representative types were chosen for study. The size of each varied somewhat depending on the type involved; bird rock sites, for example, were small, while other sites, such as solifluction slopes, were up to several acres in size. Within each site a listing of all plants observed was compiled and one or more photographs taken. After this was done percentage cover was estimated for each species as well as for rock, soil and duff. An attempt was made to examine several different sites of each type but this was often prevented because of shortage of time. Appendix I contains the data obtained at each of the 79 sites studied.

An attempt was made to collect voucher samples of all plant species. This was done by placing vascular plants in plant presses and by putting lichens and bryophytes in 2 lb. size paper bags on which the site number had been recorded. The bags were then stapled and placed in 100 lb. sugar sacks for transport. These were later shipped to Calgary in sealed metal pails. Each bag was then opened, its contents placed in distilled water and allowed to soak to lose brittleness, after which the material was hand sorted and put in plant presses. After drying it was sorted to species or groups of species and these were placed in packets on which the

site number had been recorded. The specimens were then identified with the aid of a Bausch and Lomb Stereo-Zoom dissecting microscope and a Wild M-20 compound microscope. Lastly, labels giving the identification, complete collection data, and a voucher number were attached to each packet.

A collection of leaches was made at Chappie Lake, Yukon. Information about them is given in Appendix II.

A small collection of spiders was made at a number of sites in the Yukon and Northwest Territories. Information about them is given in Appendix II.

A collection of aquatic beetles was made at Chappie Lake, Yukon. Information about them is given in Appendix IV.

A collection of butterflies and moths was made at a number of sites in the Yukon and Northwest Territories. Information about them is given in Appendix V.

THE SPECIES ENCOUNTERED

This section describes the distribution and occurrence of the 536 species of plants found during investigations at each of the four study areas in the Yukon and at each of the four study areas in the Northwest Territories.

The names of each of the four types of area in each Territory and their abbreviations as used throughout the text are shown in Table 3.

The relative abundance of each species in each of the four areas in each Territory has been subjectively divided into four levels of abundance (abundant, common, occasional, and rare) as indicated in Table 3.

The cover percentages refer to the estimated amount of ground covered by the individual species. A "+" indicated that a species covered less than 1% of the area in a site.

A set of each of the specimens indicated by a voucher number is on deposit in the Herbarium of the University of Calgary (UAC). Partial sets of lichens are on deposit at the University of Wisconsin (WIS) and at the National Herbarium of Canada (CANL). A partial set of bryophytes is on deposit at the National Herbarium of Canada (CANM).

Algae

Microscopic algae were not investigated, however, two different macroscopic ones were observed and cover data from them was gathered.

Nostoc sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;

NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES:

GAC - present in 2 sites at +.

Literature reports: Bird 1972.

Voucher specimens: YUKON - 29767, 29947. NORTHWEST TERRITORIES - 30863, 31047.

Trentepohlia sp.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;

NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GAS - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - 31446

Territory	YUKON						N.W.T.		
	Glaciated		Nonglaciated		Glaciated			Non-glaciated	
Glaciation Level	Below Timber-line	Above Timber-line	Below Timber-line	Above Timber-line	Below Timber-line	Above Timber-line	Below Timber-line	Above Timber-line	Non-glaciated
Abbreviation	GB	GA	NB	NA	GB	Carbonate	Carbonate	Silicate	Above Timber-line Carbonate NAC
Number of Sites	8	1	5	22	12	18	8	5	5
Abundant	6-8		5	18-22	10-12	15-18	6-8		5
Common	4-5	Present	3-4	6-17	4-9	5-14	4-5		3-4
Occasional	2-3		2	2-5	2-3	2-4	2-3		2
Rare	1		1	1	1	1	1		1

Table 3. The number of sites in which presence was required for each relative abundance level.

Lichens

Two hundred and twenty-two species of lichens were encountered during the study: YUKON - 62 at GB, 40 at GA, 52 at NB, and 114 at NA; NORTHWEST TERRITORIES - 80 at GB, 97 at GAC, 90 at GAS, and 43 at NAC.

The distribution of each species in nearby areas is indicated by the citation, under "Literature Reports", of the following sources: Northwest Territories - Coppermine Area (Thomson 1970), Mackenzie River Area (Bird 1972), Great Slave Lake Region (Thomson et al. 1969), Thelon River and Kaminuriak Lake Region (Scotter and Thomson 1966); Alaska - macrolichens of the entire State (Krog 1968), Mt. McKinley National Park (Weber and Viereck 1967); and Greenland - Central Western Region (Hansen 1962), North East Region (Lynge 1940), Southern Region (Hansen 1971).

The "General distribution" of each taxon was determined from the above sources, from Herbarium specimens, and from Poelt (1969).

Nomenclature is based on Hale and Culberson (1970).

Acarospora glaucocarpa (Wahlenb.ex Ach.) Korb.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;

NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES:

GAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29147, 29983. NORTHWEST TERRITORIES -
31080.

Agyrophora rigida (Du Rietz) Llano

Synonymy: Umbilicaria rigida (Du Rietz) Frey.

Substrate: sandstone, quartzite, chert; rarely acidic rock, granite.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;
NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
GAS - abundant; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at
1%, and in 2 sites at +. NORTHWEST TERRITORIES: GAS - present in
1 site at 8%, in 2 sites at 5%, in 1 site at 4%, in 1 site at 3%,
and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29721, 29772, 29779, 29780, 29860, 30495.
NORTHWEST TERRITORIES - 20868, 31345, 31346, 31457, 31498, 31499,
31532, 31589, 31640.

Alectoria chalybeiformis (L.) S.Gray

Substrate: soil, chert.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;
NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
Scotter and Thomson 1966, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29861. NORTHWEST TERRITORIES - 31301.

Alectoria glabra Mot.

Substrate: Picea mariana, Picea glauca, Betula papyrifera, Larix
laricina, Alnus crispa, Pinus divaricata; twice on rotten wood;
rarely Salix sp.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common;
NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 7 sites at +; NB - present in 1 site at
4%, in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 9 sites
at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966,
Thomson et al. 1969, Weber and Viereck 1967.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 28945, 28961, 29495, 29499, 29529, 29536,
29562, 29566, 29599, 29600, 29642, 29649, 30095, 30186, 30225, 30236,
30243, 30345. NORTHWEST TERRITORIES - 31687, 31696, 31760, 31818,
31829, 31839, 31908, 31955, 31966, 31981, 32193, 32197, 32397, 32405,
32435, 32444, 32452.

Alectoria minuscula Nyl.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;
 NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31358, 31590.

Alectoria nigricans (Ach.) Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - present; NB - rare; NA -
 common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
 common; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; GA - present in 1 site at 3%;
 NB - present in 1 site at +; NA - present in 12 sites at +.
 NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present
 in 4 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
 and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29024, 29051, 29095, 29155, 29277, 29340,
 29400, 29500, 29679, 29743, 29786, 29827, 29994, 30346, 30444.
 NORTHWEST TERRITORIES - 30670, 31302, 31303, 31366, 31422, 31602.

Alectoria nitidula (Th. Fr.) Vain.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1971, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30248, 30352.

Alectoria ochroleuca (Hoffn.) Mass.

Substrate: soil; twice on Picea glauca; rarely Picea mariana.

Relative abundance: YUKON: GB - absent; GA - present; NB - common; NA - common. NORTHWEST TERRITORIES: GB - occasional; GAC - abundant; GAS - abundant; NAC - rare.

Cover: YUKON: GA - present in 1 site at 5%; NB - present in 1 site at 2%, in 2 sites at +; NA - present in 1 site at 25%, in 1 site at 11%, in 14 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 3%, in 1 site at +; GAC - present in 1 site at 19%, in 2 sites at 8%, in 1 site at 3%, in 5 sites at 2%, in 2 sites at 1%, and in 5 sites at +; GAS - present in 1 site at 15%, in 1 site at 8%, in 1 site at 5%, in 1 site at 2%, and in 2 sites at 1%; NAC - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29052, 29096, 29156, 29196, 29278, 29341, 29401, 29680, 29744, 29828, 29872, 29995, 30031, 30143, 30249, 30353, 30431, 30445. NORTHWEST TERRITORIES - 30539, 30606, 30671, 30720, 30758, 30830, 30878, 31028, 31091, 31150, 31227, 31304, 31367, 31464, 31538, 31603, 31990, 32035, 32088, 32138, 32198, 32206, 32245, 32288.

Alectoria pubescens (L.) R.H. Howe

Substrate: sandstone, quartz.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;

NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;

GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,

Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31341, 31448.

Alectoria simplicior (Vain.) Lyngé.

Substrate: Larix laricina, Picea mariana, Pinus divaricata, rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present on 1 site at +. NORTHWEST TERRITORIES: GB - present on 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 30137, 30144. NORTHWEST TERRITORIES - 31707, 31718.

Arthroraphis citrinella var. alpina (Schaer.) Poelt.

Synonymy: Bacidia alpina (Schaer.) Vain.

Substrate: vegetabilia

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: NA - present on 1 site at +. NORTHWEST TERRITORIES: NAC - present on 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29235. NORTHWEST TERRITORIES - 31192.

Asahinea chrysantha (Tuck.) W.Culb. & C.Culb.

Synonymy: Cetraria chrysantha Tuck.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at 2%, in 2 sites at 1%, and in 8 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson 1970, Weber and Viereck 1967.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29053, 29097, 29157, 29197, 29240, 29279, 29402, 29681, 29873, 29996, 30032, 30250, 30354. NORTHWEST TERRITORIES - 31228.

Asahinea scholanderi (Llano.) W.Culb. & C.Culb.

Synonymy: Cetraria scholanderi Llano

Comment: Asahinea scholanderi looks somewhat like Parmelia saxatilis but it has K- medulla while P. saxatilis has the medulla K+ red.

Substrate: siltstone, soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Krog 1968, Scotter and Thomson 1966, Thomson et al.

1969, Weber and Viereck 1967. Voucher 27105 in Bird (1972) is A. scholanderi.

General distribution: Amphi-Beringian, Western Arctic-Boreal Alpine.

Voucher specimens: YUKON - 30355, 30389.

Bacidia sphaeroides (Dicks.) Zahlbr.Substrate: Populus balsamifera.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: American, Arctic-Boreal Montane.

Voucher specimen: YUKON - 30533.

Baeomyces carneus (Retz.) Flörke

Substrate: vegetabilia; rarely sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 3 sites at +.

Literature reports; Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimens: YUKON - 29821. NORTHWEST TERRITORIES - 31085, 31463, 31600, 31655.

Baeomyces rufus (Huds.) Rebert.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Hansen 1971, Lynge 1940, Scotter and Thomson 1966,
Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31026.

Blastenia sinapisperma (Lam.) Mass.

Substrate: vegetabilia; rarely soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS -
absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC -
present in 6 sites at +.

Literature reports: Thomson et al. 1969.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 30399. NORTHWEST TERRITORIES - 30623, 30666,
31086, 31147, 32132, 32240, 32284.

Buellia aethalea (Ach.) Th.Fr.

Substrate: shaly dolomite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: YUKON - 29328.

Buellia alboatra (Hoffm.) Branth. & Rostr.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent,
NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare;
GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32016.

Buellia papillata (Somm.) Tuck.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;
GAS - rare; NAC - rare.

Cover: YUKON: NA - present in 10 sites at +. NORTHWEST TERRITORIES:
GAC - present in 2 sites at +; GAS - present in 1 site at +; NAC -
present in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29098, 29333, 29391, 29783, 29938, 29952,
29993, 30309, 30400. NORTHWEST TERRITORIES: 30802, 30982, 31656, 32026.

Buellia punctata (Hoffm.) Mass.

Substrate: Alnus crispa, Picea glauca

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: YUKON - 38936. NORTHWEST TERRITORIES - 31946, 32204.

Buellia triphragmioides Anzi.

Substrate: Salix sp., Alnus crispa, Picea glauca.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31761, 31794, 31796, 31830.

Buellia zahlbrückneri J. Stein

Substrate: Alnus crispa, Betula papyrifera.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28937, 28946.

Calicium populneum Brond. ex Duby

Substrate: Betula papyrifera.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31956, 32436.

Caloplaca cerina (Ehrh.) Th.Fr.

Substrate: Populus tremuloides.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31715, 31850, 31851.

Caloplaca holocarpa (Hoffm.) Wade.

Synonymy: Caloplaca pyracea (Ach.) Th.Fr.

Substrate: Salix sp., Populus tremuloides, limestone; twice on Picea glauca, Populus balsamifera; rarely chert, diabase, non-calcareous sandstone, Alnus crispa, Picea mariana.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site. NORTHWEST TERRITORIES: GB - present in 5 sites at +; GAC - present in 2 sites at +.

Literature reports: Bird 1972, Lyngø 1940, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30534, 30535. NORTHWEST TERRITORIES - 30788, 30790, 30796, 30798, 31697, 31704, 31715, 31716, 31732, 31737, 31769, 31793, 31794, 31836, 31850, 31851, 31909, 31984, 32017, 32020, 32021.

Caloplaca jungermanniae (Vahl) Th.Fr.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;

NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +.

NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Lyngø 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29018, 30521. NORTHWEST TERRITORIES - 32085.

Caloplaca stillicidiörum (Vahl) Lyngø

Substrate: vegetabilia; rarely limestone, bone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;

GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29154, 29272, 29904. NORTHWEST TERRITORIES - 30802, 30913, 31339.

Candelaria concolor (Dicks.) B.Stein

Substrate: Picea glauca.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: YUKON - 28962.

Candelariella sp.

Substrate: Alnus crispa.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Voucher specimens: NORTHWEST TERRITORIES - 31819, 31947.

Candelariella aurella (Hoffm.) Zahlbr.

Synonymy: C. epixantha (Ach.) Sandst.

Substrate: limestone; rarely bone, chert, diabase, granite, non-calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +.

Literature reports: Bird 1972, Lyngé 1940, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29383. NORTHWEST TERRITORIES - 20788, 30790, 30794, 30796, 30799, 31270, 32018.

Candelariella vitellina (Ehrh.) Müll. Arg.

Substrate: non-calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Lyngé 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30798.

Cetraria andrejevii Oxn.

This species was not encountered during the present study. Specimen 27309 in Bird (1972), cited as C. simmonsii Krog, has been revised to C. andrejevii by I. Kärnefelt.

Cetraria commixta (Nyl.) Th.Fr.

Substrate: sandstone; rarely quartz, quartzite, chert, siltstone, soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29863, 30439, 30447, 30513. NORTHWEST TERRITORIES - 31342, 31347, 31359, 31500, 31641.

Cetaria cucullata (Bell) Ach.

Substrate: soil; rarely Picea glauca.

Relative abundance: YUKON: GB - common; GA - present; NB - abundant; NA - common. NORTHWEST TERRITORIES: GB - common; GAC - abundant; GAS - abundant; NAC - occasional.

Cover: YUKON: GB - present in 4 sites at +; GA - present in 1 site at 17%; NB - present in 1 site at 20%, in 1 site at 9%, in 1 site at 6%, in 1 site at 5%, and in 1 site at 3%; NA - present in 1 site at 14%, in 1 site at 9%, in 1 site at 3%, in 1 site at 2%, in 1 site

at 1%, and in 7 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 12%, in 1 site at 6%, in 1 site at 2%, and in 1 site at +; GAC - present in 1 site at 10%, in 2 sites at 8%, in 2 sites at 5%; in 2 sites at 4%, in 2 sites at 3%, in 4 sites at 2%, in 1 site at 1%, and in 1 site at +; GAS - present in 1 site at 15%, in 2 sites at 10%, in 1 site at 3%, in 2 sites at 2%, and in 1 site at 1%; NAC - present in 1 site at 2%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29025, 29054, 29099, 29158, 29280, 29342, 29403, 29470, 29507, 29573, 29682, 29745, 29874, 30067, 30117, 30154, 30193, 30251, 30312, 30356, 30404, 30432, 30446. NORTHWEST TERRITORIES - 30540, 30607, 30672, 20721, 20759, 30831, 30879, 31029, 31092, 31151, 31229, 31305, 31368, 31465, 31507, 31539, 31604, 32036, 32089, 32139, 32207, 32246, 32289, 32334, 32363, 32415.

Cetraria elenkinii Krog

Synonymy: Cetraria nigricascens (Nyl.) Elenk.

Comment: Specimens 26631 and 26738 cited in Bird (1972) as C. elenkinii have been revised by I. Kärnefelt to the PD- strain of C. islandica.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at ; GAC - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966,
Thomson et al. 1969.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29055, 29100. NORTHWEST TERRITORIES - 31093,
31540, 32335.

Cetraria halei W.Culb. & C.Culb.

Synonymy: previously included in Cetraria ciliaris Ach. sens. lat.

Substrate: Pinus divaricata; twice on Picea mariana; rarely Betula
papyrifera, Picea glauca.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 6 sites at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966,
Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31708, 31840, 32199, 32398,
32406, 32445, 32454.

Cetraria cf. hepatizon (Ach.) Vain.

Substrate: sandstone; once on soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970,
 Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31410, 31423, 31591.

Cretraria islandica (L.) Ach.

Comment: All of the material of C. laevigata and of C. islandica was found to be medulla K+ red contrary to statements in the literature to the effect that C. islandica is medulla K-. Separation of the two was based on the presence of well developed pseudocyphellae in C. islandica and their lack in C. laevigata.

Specimen 23150 cited as C. subalpina Imsh. in Bird (1972) has been revised by I. Kärnefelt to C. islandica. He also revised specimens 26631 and 26738, called C. eeleninii Krog; this time to the PD- strain of C. islandica.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: NA - present in 13 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, and in 1 site at 1%; NAC - present in 4 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970,
 Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29026, 29101, 29159, 29281, 29343, 29404,
29683, 29746, 29787, 29829, 29875, 29954, 30033. NORTHWEST
TERRITORIES - 30608, 30673, 30920, 30987, 31152, 31194.

Cetraria laevigata Rass.

Substrate: soil.

Relative abundance: YUKON: GB - common; GA - present; NB - common;
NA - common. NORTHWEST TERRITORIES: GB - common; GAC - abundant;
GAS - abundant, NAC - rare.

Cover: YUKON: GB - present in 3 sites at 1%, and in 2 sites at +;
GA - present in 1 site at 4%; NB - present in 2 sites at 2%, in 1
site at 1%, and in 1 site at +; NA - present in 1 site at 1%, and
in 10 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site
at 4%, and in 3 sites at +; GAC - present in 2 sites at 10%, in 1
site at 6%, in 2 sites at 3%, in 5 sites at 2%, in 1 site at 1%,
and in 5 sites at +; GAS - present in 1 site at 8%, in 2 sites at
5%, in 2 sites at 3%, and in 1 site at 2%; NAC - present in 1 site
at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29056, 29102, 29160, 29282, 29344, 29405,
29471, 29508, 29544, 29610, 29912, 29997, 30034, 30068, 30118,
30194, 30252, 30313, 30357, 30448. NORTHWEST TERRITORIES - 30541,
30609, 30674, 30722, 30760, 30832, 30880, 31030, 31094, 31153,
31230, 31369, 31424, 31466, 31508, 31541, 31605, 31991, 32037,
32090, 32140, 32208, 32247, 32290, 32364, 32370, 32416.

Cetraria cf. nigricans (Retz.) Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31542.

Cetraria nivalis (L.) Ach.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - occasional; GA - present; NB - common; NA - abundant. NORTHWEST TERRITORIES: GB - common; GAC - abundant; GAS - abundant; NAC - common.

Cover: YUKON: GB - present in 1 site at 2%, and in 1 site at +; GA - present in 1 site at 10%; NB - present in 1 site at 5%, in 1 site at 3%, and in 1 site at +; NA - present in 1 site at 4%, in 2 sites at 3%, in 2 sites at 2%, in 11 sites at 1%, and in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 12%, in 1 site at 3%, in 1 site at 2%, and in 3 sites at +; GAC - present in 1 site at 10%, in 2 sites at 8%, in 1 site at 5%, in 3 sites at 4%, in 3 sites at 3%, in 2 sites at 2%, in 2 sites at 1%, and in 3 sites at +; GAS - present in 2 sites at 5%, in 1 site at 4%, in 1 site at 3%, and in 2 sites at 1%; NAC - present in 1 site at 2%, and in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
 and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28997, 29027, 29057, 29103, 29161, 29198,
 29283, 29345, 29406, 29472, 29574, 29684, 29747, 29788, 29830, 29913,
 30035, 30119, 30155, 30358, 30449. NORTHWEST TERRITORIES - 30542,
 30610, 30675, 30723, 30761, 30806, 30833, 30881, 31031, 31095, 31154,
 31231, 31306, 31370, 31425, 31467, 31543, 31606, 31997, 32038, 32091,
 32141, 32209, 32248, 32291, 32336.

Cetraria pinastri (Scop.) S.Gray

Substrate: Picea mariana, Alnus crispa, Larix laricina, Picea glauca,
Betula papyrifera, rotten wood, Pinus divaricata; twice on Salix
 sp.; rarely Alnus tenuifolia.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - abundant;
 NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 6 sites at +; NB - present in 5 sites at
 +. NORTHWEST TERRITORIES: GB - present in 9 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Scotter and
 Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28938, 28947, 28963, 29530, 29537, 29563,
 29567, 29608, 29655, 30096, 30100, 30138, 30145, 30187, 30234, 30237,
 30244, 30347, 30433. NORTHWEST TERRITORIES - 31688, 31698, 31709,
 31719, 31762, 31820, 31831, 31841, 31855, 31902, 31949, 32399, 32407,
 32437, 32446, 32455.

Cetraria richardsonii Hook.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - occasional; NAC - rare.

Cover: YUKON: NB - present in 1 site at 6%, and in 2 sites at 3%; NA - present in 1 site at 2%, in 1 site at 1%, and in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%; GAC - present in 1 site at 4%, in 1 site at 2%, in 1 site at 1%, and in 4 sites at +; GAS - present in 2 sites at 1%; NAC - present in 1 site at 1%.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29162, 29284, 30156, 30253, 30314, 30405. NORTHWEST TERRITORIES - 30543, 30611, 30676, 30724, 30762, 31032, 31155, 31371, 31544, 32092, 32142.

Cetraria simmonsii Krog

This species was not encountered during the present study. Specimen 27309 in Bird (1972), called this species, was revised by I. Kärnefelt to C. andrejevii Oxn.

Cetraria subalpina Imsh.

This species was not encountered during the present study. Specimen 23150 cited as C. subalpina in Bird (1972) has been revised by I. Kärnefelt to C. islandica (L.) Ach.

Cetraria tilesii Ach.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - abundant. NORTHWEST TERRITORIES: GB - rare; GAC - abundant; GAS - common; NAC - abundant.

Cover: YUKON: GA - present in 1 site at 4%; NA - present in 4 sites at 3%, in 4 sites at 2%, in 9 sites at 1%, and in 4 sites at +.

NORTHWEST TERRITORIES: GB - present in 1 site at 1%; GAC - present in 2 sites at 4%, in 5 sites at 3%, in 4 sites at 2%, in 2 sites at 1%, and in 2 sites at +; GAS - present in 1 site at 1%, and in 4 sites at +; NAC - present in 2 sites at 2%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 28998, 29028, 29058, 29104, 29163, 29199, 29241, 29285, 29346, 29407, 29685, 29748, 29789, 29831, 29876, 29914, 29911, 29955, 29998, 30036, 30450. NORTHWEST TERRITORIES - 30544, 30612, 30677, 30807, 30834, 30882, 30921, 20958, 30988, 31033, 31096, 31195, 31285, 31458, 31468, 31545, 31993, 32039, 32249.

Cladina aberrans (Abb.) Hale & W.Culb.

Synonymy: Cladonia alpestris var. aberrans (Des Abb.) Ahti, C. alpestris (L.) Harm., Chem. Str. II (psoromic acid strain, PD+ yellow). Though morphologically identical to Cladonia alpestris the present species differs in containing psoromic acid and in having a rather well-defined distribution pattern.

Substrate: soil, once soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;
 NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
 GAS - present in 1 site at 1%.

Literature reports: Bird 1972, Krog 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29727. NORTHWEST TERRITORIES - 31469.

Cladina alpestris (L.) Harm.

Synonymy: Cladonia alpestris (L.) Rabenh., Chem. Str. I(PD-).

Substrate: soil; once on soil in wet depression.

Relative abundance: YUKON: GB - abundant; GA - present; NB - common;
 NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional;
 GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 49%, in 1 site at 42%, in 1
 site at 35%, in 1 site at 26%, in 1 site at 13%, in 1 site at 1%,
 and in 1 site at +; GA - present in 1 site at 2%; NB - present in 1
 site at 7%, in 1 site at 3%, in 1 site at 2%; NA - present in 1 site
 at 5%, in 1 site at 2%, and in 2 sites at +. NORTHWEST TERRITORIES:
 GB - present in 1 site at 65%, in 1 site at 10%, and in 3 sites at
 +; GAC - present in 2 sites at +; GAS - present in 1 site at 6%, in
 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
 and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28903, 29408, 29473, 29509, 29575, 29611, 29728, 30120, 20157, 30254, 30406, 30451. NORTHWEST TERRITORIES - 31426, 31470, 31546, 31607, 31659, 32040, 32093, 32337, 32365, 32371.

Cladina arbuscula ssp. beringiana (Ahti.) Bird

Synonymy: Cladonia sylvatica (L.) Hoffm. sens. lat., C. arbuscula ssp. beringiana Ahti.

Substrate: soil; once in soil in wet depression; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - common; GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 2%, and in 4 sites at +; NB - present in 1 site at 5%, in 2 sites at 3%, and in 1 site at 2%; NA - present in 1 site at 3%, and in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 5%, in 1 site at 3%, and in 3 sites at +; GAC - present in 1 site at 3%, in 1 site at 2%; in 1 site at 1%, and in 4 sites at +; GAS - present in 2 sites at 3%, in 1 site at 2%, in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29286, 29510, 29545, 29576, 29612, 30069, 30151, 30158, 30359. NORTHWEST TERRITORIES - 30613, 30763, 31034, 31471, 31547, 31739, 31856, 32041, 32143, 32210.

Cladina mitis (Sandst.) Hale & W.Culb.

Synonymy: Cladonia mitis Sandst.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - rare; NAC - rare.

Cover: YUKON: GB - present in 1 site at 1%, and in 4 sites at +; NB - present in 1 site at 1%; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 10%, in 1 site at 8%, and in 4 sites at +; GAC - present in 1 site at 1%, and in 2 sites at +; GAS - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28904, 29164, 29287, 29474, 29546, 29577, 29613, 30159. NORTHWEST TERRITORIES - 30614, 31156, 31548, 31660, 31776, 31803, 31866, 32250, 32292, 32372, 32417.

Cladina rangiferina (L.) Harm.

Synonymy: Cladonia rangiferina (L.) Wigg.

Substrate: soil.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - abundant; NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 10%, in 1 site at 7%, in 2 sites at 5%, in 1 site at 2%, and in 2 sites at +; NB - present in 1 site at 10%, in 1 site at 3%, in 1 site at 2%, in 1 site at 1%, and in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 7%, in 1 site at 2%, in 2 sites at 1%, and in 3 sites at +; GAC - present in 2 sites at +; GAS - present in 1 site at 2%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28905, 29165, 29475, 29511, 29547, 29578, 29614, 30121, 30160, 30195, 30315, 30407. NORTHWEST TERRITORIES - 31372, 31427, 31472, 31661, 31867, 32144, 32293, 32338, 32366, 32418.

Cladonia sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - 31157.

Cladonia amaurocraea (Flörke) Schaer.

Substrate: soil; twice on rotten wood.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - abundant; NAC - absent.

Cover: YUKON: GB - present in 1 site at 4%, in 1 site at 2%, in 2 sites at 1%, and in 4 sites at +; NB - present in 2 sites at 2%, and in 2 sites at 1%; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 6 sites at +; GAC - present in 3 sites at +; GAS - present in 1 site at 1%, and in 5 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28906, 28977, 29476, 29512, 29579, 29615, 29658, 29661, 29832, 30070, 30122, 30161, 30196, 30360. NORTHWEST TERRITORIES - 31373, 31428, 31473, 31509, 31549, 31608, 31804, 31857, 31868, 31994, 32042, 32094, 32145, 32339, 32373.

Cladonia bacillaris (Ach.) Nyl.

Substrate: rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31720, 32328.

Cladonia botrytes (Hag.) Willd.

Substrate: rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +.
NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29668, 30228. NORTHWEST TERRITORIES - 31721.

Cladonia cariosa (Ach.) Spreng.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31662, 31740.

Cladonia cenotea (Ach.) Schaer.

Substrate: soil; once soil in wet depression; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 5 sites at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28978, 29477, 29616, 29661, 29729, 30071, 30162. NORTHWEST TERRITORIES - 31511, 32096, 32146.

Cladonia chlorophaea (Flörke ex Somm.) Spreng.

Synonymy: C. pyxidata ssp. chlorophaea (Flörke) Spreng. The species is regarded here in the narrow sense. All of the specimens were PD+ red and none of them yielded crystals in GE or GAW.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29548, 30072. NORTHWEST TERRITORIES - 31741.

Cladonia coccifera (L.) Willd.

Substrate: soil; rarely sandstone.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - common; NAC - occasional.

Cover: YUKON: GB - present in 4 sites at +; NB - present in 1 site at 1%, and in 1 site at +; NA - present in 3 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 3 sites at +; GAC - present in 2 sites at +; GAS - present in 5 sites at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28907, 29288, 29478, 29549, 29661, 29833, 30123, 30163, 30255. NORTHWEST TERRITORIES - 30989, 31158, 31374, 31429, 31454, 31474, 31510, 31550, 32095, 32294, 32340, 32374, 32419.

Cladonia coniocraea (Flörke) Spreng.

Substrate: rotten wood, soil; rarely Picea glauca.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28964, 29669, 30226. NORTHWEST TERRITORIES - 31805, 31923.

Cladonia cornuta (L.) Hoffm.

Substrate: soil; once soil in wet depression; twice on rotten wood.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - absent;

NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 7 sites at +; NA - present in 1 site at +.

NORTHWEST TERRITORIES: GB - present in 4 sites at +; GAC - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,

Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28908, 29479, 29550, 29580, 29617, 29659, 29730, 30073. NORTHWEST TERRITORIES - 30764, 31663, 31722, 31742. 31777, 32341, 32420.

Cladonia crispata (Ach.) Flot.

Substrate: soil; twice on rotten wood.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;

NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 2%, and in 1 site at +; NB -

present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck
 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29551, 29618, 30164, 30197. NORTHWEST
 TERRITORIES - 31743, 31778, 31782, 32375, 32421.

Cladonia deformis (Flörke.) Schaer.

Synonymy: C. deformis (L.) Hoffm. sens. lat., C. deformis var. deformis.

Substrate: soil; once soil in wet depression; twice on rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA -
 rare. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent;
 NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 3 sites at +; NB -
 present in 1 site at +; NA - present in 1 site at +. NORTHWEST
 TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site
 at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
 and Viereck 1967?

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29513, 29581, 29660, 29731, 30074, 30198,
 30227. NORTHWEST TERRITORIES - 30725, 31779.

Cladonia ecmocyna (Ach.) Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;
 NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Scotter and
 Thomson 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30256.

Cladonia fimbriata (L.) Fr.

Substrate: soil, rotten wood; rarely Picea glauca.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare;
 NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at +.
 NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck
 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28909, 30075, 30228. NORTHWEST TERRITORIES -
 31806, 31967, 31973.

Cladonia gonecha (Ach.) Asah.

Synonymy: C. deformis var. gonecha (Ach.) Arn., C. deformis (L.) Hoffm.
sens. lat.

Substrate: soil; once soil in wet depression; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional;
NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional;
GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 3 sites at 1%, and in 2 sites at +; NB -
present in 1 site at 1%, and in 1 site at +; NA - present in 1 site
at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in
2 sites at +; GAC - present in 3 sites at +; GAS - present in 1 site
at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Weber and
Viereck 1967?

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28979, 29480, 29552, 29619, 29732, 30076,
30165, 30408. NORTHWEST TERRITORIES - 30726, 30765, 31512, 31781,
32147, 32295, 32342.

Cladonia gracilis var. dilatata (Hoffm.) Schaer.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - rare; NA -
rare. NORTHWEST TERRITORIES: GB - common; GAC - rare; GAS -
occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 5 sites at +;
NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST
TERRITORIES: GB - present in 1 site at 1%, and in 6 sites at +;
GAC - present in 1 site at +; GAS - present in 3 sites at +; NAC -
absent.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966,
Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28910, 29289, 29481, 29514, 29620, 29661,
30077, 30101, 30199, 30228. NORTHWEST TERRITORIES - 30727, 30835,
31475, 31551, 31609, 31617, 31664, 31723, 31744, 31780, 31807, 31859,
31869, 32148, 32343, 32422.

Cladonia gracilis (L.) Willd. var. gracilis

Synonymy: C. gracilis var. chordalis (Flörke) Schaer.

Substrate: soil; twice on rotten wood.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent;
NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS -
occasional; NAC - rare.

Cover: YUKON: GB - present in 2 sites at +; NA - present in 1 site at +.
NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present
in 5 sites at +; GAS - present in 3 sites at +; NAC - present in 1
site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940,
Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimens: YUKON - 29347, 29662, 30102. NORTHWEST TERRITORIES -
30728, 30766, 20836, 30990, 31035, 31375, 31430, 31513, 31724, 32211.

Cladonia grayi Merr. ex Sandst.

Substrate: soil; once soil in wet depression.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;
 NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 2 sites at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal.

Voucher specimens: YUKON - 29482, 29553, 30152, 30200.

Cladonia lepidota Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
 absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940,
 Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimen: NORTHWEST TERRITORIES - 30767.

Cladonia macrophyllodes Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
 rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
 Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31552.

Cladonia metacorallifera Asah.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 4 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29663. NORTHWEST TERRITORIES - 31376, 31431, 31476, 31553.

Cladonia multiformis Merr.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 28911. NORTHWEST TERRITORIES - 31665, 31745, 31808, 31870.

Cladonia norrlinii Vain.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Boreal.

Voucher specimen: NORTHWEST TERRITORIES - 31746.

Cladonia phyllophora Hoffm.

Synonymy: C. degenerans (Flörke) Spreng.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28912, 29621. NORTHWEST TERRITORIES - 32376, 32423.

Cladonia pleurota (Flörke) Schaer.

Synonymy: C. coccifera var. pleurota (Flörke) Vain.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 3 sites at +. NORTHWEST TERRITORIES: GAS - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29483, 29622, 30078. NORTHWEST TERRITORIES - 31377, 31432.

Cladonia pocillum (Ach.) O.Rich.

Synonymy: C. pyxidata var. pocillum (Ach.) Flot.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - occasional; NAC - abundant.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 13 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 13 sites at +; GAS - present in 2 sites at +; NAC - present in 5 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29105, 29166, 29200, 29348, 29409, 29686, 29749, 29790, 29834, 29877, 29915, 29999, 30361, 30409, 30452. NORTHWEST TERRITORIES - 30615, 30678, 30768, 30837, 30883, 30922, 30959, 30991, 31036, 31097, 31159, 31196, 31232, 31307, 31610, 31924, 32043, 32097, 32149, 32251, 32296.

Cladonia pyxidata (L.) Hoffm.

Synonymy: C. pyxidata var. pyxidata.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - common; NA - common. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 3 sites at +; NA - present in 7 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 4 sites at +; GAS - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28913, 28980, 29106, 29167, 29201, 29349, 29410, 30037, 30166, 30316, 30362, 30410. NORTHWEST TERRITORIES - 30769, 30838, 31098, 31554, 31611, 31666, 32150, 32297.

Cladonia squamosa (Scop.) Hoffm.

Substrate: soil; once on rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAS - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31477, 31555, 31860.

Cladonia subfurcata (Nyl.) Arn.

Synonymy: C. delessertii (Nyl.) Vain.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 1%.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32353.

Cladonia subulata (L.) Wigg.

Synonymy: C. cornutoradiata (Coem.) Sandst.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Hansen 1962, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31725, 31925.

Cladonia uncialis (L.) Wigg.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +;
NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present
in 1 site at 2%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
Scotter and Thomson 1966, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29623, 30201, 30363. NORTHWEST TERRITORIES -
32151, 32377, 32424.

Cladonia verticillata (Hoffm.) Schaer.

Substrate: rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Weber
and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31782.

Collema sp.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +.

Voucher specimen: YUKON - 30521.

Collema auriculatum Hoffm.

Substrate: limestone, vegetabilia; sometimes soil, once soil in wet depression, once loess in rock crevice.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - rare; NAC - occasional.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 20%, and in 9 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, and in 5 sites at +; GAS - present in 1 site at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29086, 29148, 29149, 29202, 29230, 29270, 29333, 29334, 29463, 29817, 29948, 29988, 30026, 30503. NORTHWEST TERRITORIES - 30602, 30661, 30667, 30803, 30815, 30826, 30977, 30983, 31020, 31047, 31087, 31271, 31536.

Collema polycarpon Hoffm.

Substrate: vegetabilia; twice on limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Thomson et al. (1969) report C. polycarpon var. corcyrense f. isidiata Degel.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29149, 29334, 29335, 29392, 29736, 29784,
29901. NORTHWEST TERRITORIES - 32034.

Collema tenax (Sw.) Ach. em Degel.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent;
NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC -
present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Krog 1968, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29202. NORTHWEST TERRITORIES - 30550, 30995.

Coriscium viride (Ach.) Vain.

Substrate: soil; rarely vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 1
site at +.

Literature reports: Bird 1972, Scotter and Thomson 1966.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31380, 31420, 31514, 31515,
31518.

Cornicularia aculeata (Schreb.) Ach.

Synonymy: included is C. muricata (Ach.) Ach. as it is so similar that many collections cannot be separated with certainty into either it or C. aculeata.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - rare; NAC - common.

Cover: YUKON: NA - present in 7 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; GAS - present in 1 site at +; NAC - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29029, 29107, 29203, 29350, 29411, 29835, 29916. NORTHWEST TERRITORIES - 30616, 30770, 30923, 30992, 31099, 31197, 31308.

Cornicularia divergens Ach.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - common; NAC - absent.

Cover: YUKON: GA - present in 1 site at 3%; NA - present in 8 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 4 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1971, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29050, 29108, 29290, 29412, 29687, 29836, 30257, 30364, 30453. NORTHWEST TERRITORIES - 30771, 31233, 31302, 31433, 31478, 31556.

Dactylina arctica PD+ strain

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%, and in 11 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird (1972) and Krog (1968) report the PD+ strain while Hansen (1962), Scotter and Thomson (1966), Thomson et al. (1969), Thomson (1970), and Weber and Viereck (1967) report the species but do not indicate the strain, or strains, involved.

General distribution: Amphi-Beringian, Arctic Alpine. Krog (1968) states "Specimens of the PD+ strain have been seen from Siberia, British Columbia, the Great Bear Lake region and Baffin Land. Since no such specimens were seen in the Greenland and Spitsbergen material, it is possible that the PD+ strain has a wide Amphi-Beringian distribution".

Voucher specimens: YUKON - 29030, 29109, 29168, 29204, 29291, 29688, 29791, 29737, 29878, 29917, 29956, 30454. NORTHWEST TERRITORIES - 30839, 30924, 30993, 31037, 31160.

Dactylina arctica (Hook.) Nyl., PD- strain

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - abundant; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 9 sites at +; GAS - present in 4 sites at 2%, in 1 site at 1%, and in 1 site at +.

Literature reports: Bird (1972) and Krog (1968) report the PD- strain while Hansen (1962), Scotter and Thomson (1966), Thomson et al. (1969), Thomson (1970), and Weber and Viereck (1967) report the species but do not indicate the strain, or strains, involved.

General distribution: Circumpolar, Arctic Alpine. Krog (1968) states That "the PD- strain has a more or less circumpolar distribution".

Voucher specimens: YUKON - 29060, 29413, 29689, 30000, 30411. NORTHWEST TERRITORIES - 30545, 30617, 30679, 30729, 30884, 31100, 31234, 31378, 31434, 31479, 31516, 31557, 31612, 32098, 32252.

Dactylina madreporiformis (Wulf.) Tuck.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Krog 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 28999, 29110.

Dactylina ramulosa (Hook.) Tuck., PD+ strain

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;

NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common;

GAS - rare; NAC - abundant.

Cover: YUKON: NA - present in 13 sites at +. NORTHWEST TERRITORIES:

GAC - present in 6 sites at +; GAS - present in 1 site at +;

NAC - present in 5 sites at +.

Literature reports: Bird (1972) and Krog (1968) report the PD+ strain while Hansen (1962), Thomson (1970), and Weber and Viereck (1962) report the species but do not indicate the strain, or strains, involved.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29031, 29111, 29169, 29205, 29292, 29351, 29690, 29750, 29792, 29838, 29879, 29918. NORTHWEST TERRITORIES - 30618, 30680, 30960, 30994, 31161, 31198, 31235, 31309, 32298.

Dermatocarpon hepaticum (Ach.) Th.Fr.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: American, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29206, 29414, 29839, 29880, NORTHWEST TERRITORIES - 30995, 32212.

Dermatocarpon miniatum var. complicatum (Lightf.) Hellb.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30816, 31021.

Diploschistes canadensis Räs.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31038.

Evernia mesomorpha Nyl.

Substrate: Picea mariana, Picea glauca, Betula papyrifera, Alnus crispa, rotten wood, Larix laricina, Pinus divericata; twice on Salix sp.; rarely Alnus tenuifolia.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 6 sites at +; NB - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 8 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28948, 28965, 29496, 29501, 29538, 29568, 29601, 29643, 29650, 30139, 30188, 30229. NORTHWEST TERRITORIES - 31689, 31699, 31710, 31726, 31763, 31821, 31832, 31842, 31901, 31903, 31910, 31945, 31950, 31957, 31968, 31982, 32200, 32400, 32408, 32438, 32447, 32456.

Evernia perfragilis Llano

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, in 1 site at 1%, and in 3 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson 1970.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29112, 30455. NORTHWEST TERRITORIES - 30546, 30885, 31995, 32213, 32253.

Fulgensia bracteata (Hoffm.) Räs.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORHTWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Lynge 1940, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30772, 32214, 32218.

Haematomma lapponicum Räs.

Synonymy: H. ventosum ssp. lapponicum (Räs.) Laund.

Substrate: sandstone, quartzite; also chert, siltstone, granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 2 sites at 1%.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29722, 29773, 30390. NORTHWEST TERRITORIES - 30793, 31298, 31592, 31642.

Hypogymnia austerodes (Nyl.) Räs.

Synonymy: Parmelia austerodes Nyl.

Substrate: Picea mariana; once Betula papyrifera, Picea glauca, rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28981. NORTHWEST TERRITORIES - 32201, 32409, 32448.

Hypogymnia bitteri (Lynge) Ahti

Substrate: Picea mariana, Picea glauca; twice on Larix laricina, rotten wood; rarely Betula papyrifera, soil.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 6 sites at +; NB - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present at 1 site at +.

Literature reports: Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28949, 28966, 29484, 29502, 29539, 29569, 29602, 29644, 29651, 30140, 30146, 30230, 30238, 30348, 30434.
NORTHWEST TERRITORIES - 32202.

Hypogymnia intestiniformis (Vill.) Räs.

Synonymy: Parmelia intestiniformis (Vill.) Ach.

Comment: Specimens from Sites 55, 57, and 61 agreed with H. intestiniformis in being medulla PD- and were not PD+ strong yellow like the related Parmelia alpicola; however, they were medulla KC+ red, in agreement with P. alpicola, where they should have been KC- according to some

statements in the literature. Some testing was carried out on other material of H. intestiniformis and it indicated that the species is sometimes KC- and at other times in KC+ red.

Substrate: sandstone; once on gravel.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31340, 31348, 31357, 31449, 31502, 31643.

Hypogymnia physodes (L.) W.Wats.

Synonymy: Parmelia physodes (L.) Ach.

Substrate: Picea mariana, Picea glauca, Larix laricina, rotten wood, Pinus divaricata, Alnus crispa; twice on Betula papyrifera; rarely Salix sp., vegetabilia.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - abundant; NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 7 sites at +; NB - present in 5 sites at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB present in 9 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28939, 28967, 29497, 29503, 29531, 29540, 29564, 29570, 29599, 29603, 29645, 29652, 30062, 30097, 30141, 30147, 30189, 30231, 30239, 30245, 30350, 30435. NORTHWEST TERRITORIES - 31690, 31700, 31727, 31764, 31783, 31833, 31843, 31858, 31904, 31911, 31958, 31969, 31983, 32203, 32401, 32410, 32449, 32457.

Icmadophila ericetorum (L.) Zahlbr.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 1 site at +; NB - present in 2 sites at 1%.

Literature reports: Bird 1972, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29485, 29667, 30124, 30167.

Lecanora allophana (Ach.) Nyl.

Substrate: Alnus crispa, Picea glauca, Salix sp.; twice on Betula papyrifera, Larix laricina, Picea mariana, Pinus divaricata, rotten wood; once on Alnus tenuifolia.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 4 sites at +; NB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 7 sites at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane?

Voucher specimens: YUKON - 28940, 28950, 29609, 29656, 30103, 30148, 30349. NORTHWEST TERRITORIES - 31691, 31701, 31704, 31733, 31765, 31766, 31795, 31822, 31834, 31844, 31905, 31912, 31953, 31959, 31974, 31984, 32194, 32204, 32458.

Lecanora badia (Hoffm.) Ach.

Substrate: sandstone, limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31278, 31346, 31353.

Lecanora caesiocinerea Nyl.

Substrate: sandstone, dolomite, shaly dolomite, partially dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +. NORTHWEST TERRITORIES:
 GAS - present in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29087, 29324, 29332, 29446. NORTHWEST
 TERRITORIES - 31349, 31355.

Lecanora candida (Anzi) Nyl.

Comment: All of the specimens lacked the exciple K+ brownish yellow
 mist reaction mentioned by Magnusson (1939) as being characteristic
 of the species.

Substrate: partially dolomitized limestone, limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
 absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at 10%, in 1 site at 1%, and in
 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 10%.

Literature reports: Lynge 1940.

General distribution: American, Arctic Alpine.

Voucher specimens: YUKON - 29088, 29255, 29453. NORTHWEST TERRITORIES -
 30817.

Lecanora chrysoleuca (Sm.) Ach.

Synonymy: L. rubina (Vill.) Ach.

Substrate: granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%.

Literature reports: Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30869.

Lecanora cinerea (L.) Somm.

Synonymy: Aspicilia cinerea (L.) Körb.

Substrate: granite, chert, diabase, sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site at 10%, and in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30497, 30499. NORTHWEST TERRITORIES - 30595, 30870, 31350.

Lecanora coilocarpa (Ach.) Nyl.

Substrate: Larix laricina, Picea glauca, Pinus divaricata, rotten wood,
Betula papyrifera, Picea mariana, Salix sp.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;
 NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 3 sites at +; NB - present in 2 sites at
 +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966,
 Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28951, 29532, 30098, 30104, 30232, 30240,
 30436. NORTHWEST TERRITORIES - 31711, 31796, 31844, 32204.

Lecanora dispersa (Pers.) Somm.

Substrate: granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
 absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30794.

Lecanora epibryon (Ach.) Ach.

Substrate: vegetabilia; rarely soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;
 NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common;
 GAS - rare; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NA - present in 15 sites at +. NORTHWEST TERRITORIES: GAC - present in 13 sites at +; GAS - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29084, 29140, 29236, 29273, 29339, 29393, 29464, 29737, 29738, 29822, 29868, 29905, 29939, 29989, 30063, 30310, 30522, NORTHWEST TERRITORIES - 30603, 30716, 30804, 30867, 30914, 30955, 31088, 31281, 31657, 32027, 32028, 32084, 32133, 32285, 31286, 32241.

Lecanora occidentalis Lynge.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Lynge 1940.

General distribution: American, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31415.

Lecanora polytropa (Ehrh.) Rabenh.

Substrate: sandstone, diabase, granite, quartzite, siltstone, dolomite, partially dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 3 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29454, 29777, 30391, 30440, 30500, 30501.

NORTHWEST TERRITORIES - 30790, 30794, 31188, 31349, 31351, 31415, 31593.

Lecanora rupicola (L.) Zahlbr.

Substrate: granite, diabase, partially dolomitized limestone, quartzite, sandstone, non-calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; GAS - present in 1 site at 7%, and in 1 site at +.

Literature reports: Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29089. NORTHWEST TERRITORIES - 30599, 30791, 30872, 30877, 31299, 31644.

Lecanora varia (Ehrh.) Ach.

Substrate: Alnus crispa, Picea glauca, Betula papyrifera, Pinus divaricata,
Salix sp.; twice on Picea mariana; rarely Alnus tenuifolia, Populus
tremuloides, rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB -
present in 8 sites at +.

Literature reports: Bird 1972, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28941, 28946, 28952. NORTHWEST TERRITORIES -
31691, 31697, 31701, 31704, 31734, 31766, 31767, 31796, 31797,
31823, 31835, 31836, 31844, 31852, 31861, 31900, 31913, 31946,
31953, 31959, 32204, 32450, 32458, 32459.

Lecanora verrucosa Ach.

Substrate: vegetabilia; rarely root.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS -
absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 11 sites
at +. NORTHWEST TERRITORIES: GAC - present in 7 sites at +;
NAC - present in 4 sites at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson
1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29018, 29019, 29141, 29237, 29274, 29333,

29336, 29390, 29394, 29465, 29738, 29739, 29823, 29990, 30064,
30523. NORTHWEST TERRITORIES - 30604, 30668, 30717, 30956, 30984,
31027, 31089, 31148, 31225, 31282, 32086.

Lecidea sp.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 10%.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Lecidea aenea (Duf.) Nyl.

Substrate: sandstone, shaly dolomite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare;
NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
GAS - present in 1 site at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970.

General distribution: American, Arctic Boreal?

Voucher specimens: YUKON - 29329. NORTHWEST TERRITORIES - 31350,
31356.

Lecidea armeniaca (DC.) Fr.

Substrate: granite, quartzite, sandstone; rarely siltstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;

NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;

GAS - common; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +.

NORTHWEST TERRITORIES: GAS - present in 1 site at 5%, in 1 site at 4%, in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29774, 29779, 30514, 30519. NORTHWEST TERRITORIES - 30871, 30872, 30877, 31351, 31360.

Lecidea assimilata Nyl.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 8 sites at +. NORTHWEST TERRITORIES: GAC - present in 5 sites at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29239, 29271, 29272, 29395, 29738, 29740, 29869, 29906, 29940, 30027. NORTHWEST TERRITORIES - 30669, 30802, 30804, 30915, 32027, 32085.

Lecidea atrobrunnea (Ram.) Schaer.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Lyngø 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31346, 31350, 31352, 31353, 31361, 31365, 31533.

Lecidea auriculata Th.Fr.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Lyngø 1940, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31645.

Lecidea decipiens (Hedw.) Ach.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 4 sites at +.

NORTHWEST TERRITORIES: GAC - present in 5 sites at +; NAC - present in 3 sites at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29000, 29207, 29839, 29881, 30456. NORTHWEST TERRITORIES - 30547, 30772, 30925, 30961, 30966, 31199, 31996, 32215.

Lecidea dicksonii (Gmel.) Ach.

Substrate: sandstone, shaly dolomite, limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 2 sites at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29329. NORTHWEST TERRITORIES - 31081, 31350, 31352, 31353, 31356.

Lecidea fuscescens Somm.

Substrate: Populus tremuloides.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent.

NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31851.

Lecidea flavocaerulescens Hornem.

Substrate: dolomite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 29322.

Lecidea cf. fuscoatra (L.) Ach.

Substrate: siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 30391 (a).

Lecidea glomerulosa (DC.) Steud.

Substrate: root; twice on Larix laricina; rarely Picea mariana, Populus balsamifera, rotten wood.

Relative abundance: YUKON: GB - rare; GA - present; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site; NB - present in 1 site at +;
 NA - present in 3 sites at +. NORTHWEST TERRITORIES: GB - present
 in 2 sites at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson
 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29390, 29533, 29782, 29867, 30241, 30535.
 NORTHWEST TERRITORIES - 31862, 31914.

Lecidea lapicida (Ach.) Ach.

Substrate: limestone, partially dolomitized limestone, sandstone; twice
 on dolomite; rarely shaly dolomite, granite, quartzite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS -
 occasional; NAC - absent.

Cover: YUKON: NA - present in 2 sites at 3%, in 3 sites at 1%, and in
 5 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at
 1%, and in 5 sites at +; GAS - present in 1 site at 3%, and in 2
 sites at +.

Literature reports: LYnge 1940, Thomson et al. 1969, Thomson 1970,
 Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29021, 29229, 29232, 29267, 29323, 29330,
 29389, 29455, 29459, 29769, 29775, 29902, 29984, 29985, 30021, 30022,
 NORTHWEST TERRITORIES - 30795, 31081, 31143, 31272, 31273, 31295,
 31354, 31355, 31356, 31362, 31416, 31594, 32237.

Lecidea luridella Tuck.

Substrate: granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30872.

Lecidea macrocarpa (DC.) Steud.

Substrate: sandstone, siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at 1%. NORTHWEST TERRITORIES: GAS - present in 2 sites at +.

Literature reports: Bird 1972, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30392, 30393. NORTHWEST TERRITORIES - 31416, 31534.

Lecidea marginata Schaer.

Synonymy: L. elata Schaer.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 5 sites at +. NORTHWEST TERRITORIES:

GAC - present in 4 sites at +.

Literature reports: Bird 1972, Lynge 1940.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29020, 29021, 29090, 29268, 29324, 29331, 29446, 29447, 29456. NORTHWEST TERRITORIES - 30590, 30908, 30911, 31273, 31274, 31296.

Lecidea nylanderii (Anzi.) Th.Fr.

Substrate: rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31974.

Lecidea pallida Th.Fr.

Substrate: vegetabilia.

Comment: L. pallida has been confused with L. vernalis Ach. The following key can be used to separate the two species.

Thallus yellow to green-yellow to white, minutely granular, K⁺ pale yellow; spores 16-22 x 6-9 μ; apothecia black (becoming very pale in age),

pruinose pallida

Thallus grey to glaucous, thin to verrucose, uneven,
not granular, K-; spores 10-20 x 4-6 μ ; apothecia

dary yellow to red-brown, epruinosevernalis

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common;
GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 4 sites at +. NORTHWEST TERRITORIES:
GAC - present in 5 sites at +.

Literature reports: Bird 1972, Lynge 1940.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29824, 29907, 30028, NORTHWEST TERRITORIES -
30916, 31090, 32028, 32086, 32286.

Lecidea rubiformis (Wahlenb. ex Ach.) Wahlenb.

Substrate: loess in rock crevice; twice on limestone; once on quartzite.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;
NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC -
occasional; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NA - present in 3 sites at +.
NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present
in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Weber
and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29231, 29265, 29776, 30504, 30505, NORTHWEST
TERRITORIES - 30665, 31025, 32024.

Lecidella stigmatea (Ach.) Hert. & Leuck.

Synonymy: Lecidea stigmatea Ach.

Substrate: limestone; one on diabase, dolomite, quartzite, calcareous and non-calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at 1%; NA - present in 1 site at 2%, and in 7 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29022, 29150, 29446, 29818, 29937, 30025, 30060, 30301, 30506. NORTHWEST TERRITORIES - 30591, 30713, 30792, 30797, 30800, 30801, 31082.

Lepraria membranacea (Dicks.) Vain.

Synonymy: Crocynia membranacea (Dicks.) Zahlbr.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29942.

Lepraria neglecta (Nyl.) Lett.

Synonymy: Crocynia neglecta (Nyl.) Hue

Substrate: soil, vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29919. NORTHWEST TERRITORIES - 30985, 31435, 31536, 31601.

Leptogium saturninum (Dicks.) Nyl.

Substrate: Populus balsamifera.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30536.

Mycoblastus sanguinarius (L.) Th.Fr.

Substrate: Picea mariana; once on soil, rotten wood, vegetabilia.

Relative abundance: YUKON: GB - common; GA - absent; NB - absent;

NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;

GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 5 sites at +; NA - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29504, 29541, 29571, 29582, 29604, 29646,
29653, 29991.

Nephroma arcticum (L.) Torss.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - absent.

NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent

Cover: YUKON: GB - present in 1 site at 9%, in 1 site at 4%, in 2 sites
at 3%, and in 1 site at +; NB - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter
and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28982, 29515, 29554, 29583, 29624, 30202.

Ochrolechia frigida (Sw.) Lynge

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common;
GAS - rare; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 4 sites at +.

NORTHWEST TERRITORIES: GAC - present in 9 sites at +; GAS - present
in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966,
Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29085, 29466, 29741, 30029, 30524. NORTHWEST
TERRITORIES - 30605, 30718, 30917, 31149, 31283, 31421, 32029,
32087, 32242, 32287.

Ochrolechia geminipara (Th.Fr.) Vain.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Thomson et al. 1969.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31658.

Ochrolechia inaëquatula (Nyl.) Zahlbr.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966,
Thomson et al. 1969.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 32134.

Ochrolechia upsaliensis (L.) Mass.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 11 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29143, 29194, 29238, 29275, 29337, 29396, 29467, 29870, 29908, 30065, 30311, 30401. NORTHWEST TERRITORIES - 30805.

Parmelia alpicola Th.Fr.

Substrate: sandstone; once on quartzite.

Relative abundance: YUKON: GB - absent: GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 4%, and in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29777. NORTHWEST TERRITORIES - 31417, 31459, 31590, 31646.

Parmelia centrifuga (L.) Ach.

Substrate: sandstone; once on dolomite, partially dolomitized limestone, shale, siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at 1%, and in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29448, 29457, 29462, 30394. NORTHWEST TERRITORIES - 31450.

Parmelia olivacea (L.) Ach.

Substrate: Betula papyrifera; once on Alnus crispa.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Krog 1968, Thomson et al. 1969, Thomson 1970.

General distribution: Incompletely Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28953. NORTHWEST TERRITORIES - 31826, 32402.

Parmelia omphalodes (L.) Ach.

Substrate: soil; once on sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30365, 30367. NORTHWEST TERRITORIES - 31460, 31558.

Parmelia saxatilis (L.) Ach.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31647.

Parmelia separata Th.Fr.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimen: YUKON - 29909.

Parmelia septentrionalis (Lynge) Ahti

Substrate: Alnus crispa, Salix sp.; twice on Betula papyrifera, Picea glauca, Pinus divaricata; once on Alnus tenuifolia, Larix laricina, Picea mariana.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 6 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28942, 29657. NORTHWEST TERRITORIES - 31692, 31702, 31798, 31824, 31946, 31951, 31960, 32194, 32439.

Parmelia subargentifera Nyl.

Substrate: Betula papyrifera, Salix sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31961, 31985.

Parmelia sulcata Tayl.

Substrate: Betula papyrifera, Picea glauca, rotten wood, Alnus crispa, Pinus divaricata, Salix sp.; twice on Picea mariana; once on Alnus tenuifolia, Larix laricina.

Relative abundance: YUKON: GB - occasions; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 9 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28952, 28954, 28968, 28983, 30350, 30437. NORTHWEST TERRITORIES - 31693, 31712, 31728, 31735, 31768, 31799, 31825, 31826, 31833, 31837, 31919, 31947, 31952, 31962, 31975, 31986, 32195, 32403, 32440, 32460.

Parmeliopsis aleurites (Ach.) Nyl.

Substrate: Picea mariana, Pinus divaricata, Betula papyrifera, Larix laricina.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 4 sites at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28955, 29534, 29605, 29647, 30149. NORTHWEST TERRITORIES - 31845, 32461.

Parmeliopsis ambigua (Wulf.) Nyl.

Substrate: Picea mariana, Larix laricina, rotten wood; twice on Picea glauca, Pinus divaricata; once on Alnus crispa, Betula papyrifera.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - abundant; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 7 sites at +; NB - present in 5 sites at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28956, 29498, 29505, 29535, 29542, 29565, 29572, 29606, 29648, 29654, 30099, 30105, 30138, 30142, 30150, 30190, 30233, 30234, 30242, 30246, 30351, 30438. NORTHWEST TERRITORIES - 31846, 31948, 32196, 32462.

Parmeliopsis hyperopta (Wulf.) Nyl.

Substrate: rotten wood; twice on Pinus divaricata; once on Betula papyrifera, Picea mariana.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28984, 30106. NORTHWEST TERRITORIES - 31713, 31729, 31847, 31963, 32411.

Peltigera sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Voucher specimens: YUKON - not collected

Peltigera aphthosa (L.) Willd.

Substrate: soil, once soil in wet depression; 3 times on rotten wood; rarely Betula papyrifera, Picea mariana.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 3 sites at 1%, and in 2 sites at +; NB - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 7 sites at +; GAC - present in 4 sites at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28914, 29516, 29584, 29625, 29793, 30079, 30107, 30113, 30203, 30258. NORTHWEST TERRITORIES - 30773, 31559, 31667, 31747, 31784, 31809, 31863, 31871, 32044, 32099, 32152, 32299, 32378, 32412, 32425, 32441.

Peltigera canina (L.) Willd.

Substrate: soil; once on Populus tremuloides.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: GB - present in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES - 30962, 31773.

Peltigera horizontalis (Huds.) Baumg.

Substrate: soil; once on rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Krog 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29626, 29794. NORTHWEST TERRITORIES - 31920, 31926.

Peltigera leucophlebia (Nyl.) Gyeln.

Synonymy: P. aphthosa var. leucophlebia Nyl.

Substrate: soil; twice on rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +; GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28915, 28985, 30204, 30366. NORTHWEST TERRITORIES - 30619, 30730, 31517, 31668, 31748, 31976, 32379.

Peltigera malácea (Ach.) Funck

Substrate: soil; once on rotten wood.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;
NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber
and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28986, 29555, 30205, 30317.

Peltigera polydactyla (Neck.) Hoffm.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,
Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31749, 31920.

Peltigera rufescens (Weis.) Humb.

Synonymy: P. canina (L.) Willd. sens. lat., P. canina var. rufescens
(Weis.) Humb.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - rare.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28916. NORTHWEST TERRITORIES - 30620, 31200, 31669.

Peltigera spuria (Ach.) DC.

Synonymy: P. canina var. spuria (Ach.) Schaer.

Substrate: soil; once on Betula papyrifera.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28957. NORTHWEST TERRITORIES - 31310, 31810.

Pertusaria bryontha (Ach.) Nyl.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29039, 29194, 29276.

Pertusaria dactylina (Ach.) Nyl.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 11 sites at +. NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29040, 29144, 29195, 29338, 29397, 29468, 29742, 29785, 29871, 29910, 30030. NORTHWEST TERRITORIES - 31193.

Pertusaria glomerata (Ach.) Schaer.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimens: YUKON - 29398, 29469, 30402.

Physcia aipolia (Ehrh.) Hampe.

Substrate: Picea glauca; once on Alnus crispa, Salix sp.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: YUKON - 28969. NORTHWEST TERRITORIES - 31703, 31704, 31769, 31800, 31833.

Physcia caesia (Hoffm.) Hampe

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29151, 29903, 30507. NORTHWEST TERRITORIES - 32019.

Physcia dubia (Hoffm.) Lett.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lyngø 1940, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30818.

Physcia endococcinea (Korb.) Th.Fr.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31595.

Physcia sciastra (Ach.) Du Rietz.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;

NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;

GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES:

GAC - present in 1 site at 10%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,

Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30508. NORTHWEST TERRITORIES - 30819, 30821,
31275.

Physconia muscigena (Ach.) Poelt.

Synonymy: Physcia muscigena (Ach.) Nyl.

Substrate: vegetabilia; rarely limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common;

GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES:

GAC - present in 1 site at 4%, and in 4 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968,

Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29399, 29825. NORTHWEST TERRITORIES - 30822
30827, 30828, 30918, 21284, 32030, 32243.

Placynthium nigrum (Huds.) S.F. Gray

Substrate: limestone; twice on dolomite; once on dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent;

NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - occasional.

Cover: YUKON: GA - present in 1 site at +; NA - present in 5 sites at +.

NORTHWEST TERRITORIES: GAC - present in 4 sites at +; NAC - present in 2 sites at +.

Literature reports: Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29386, 29449, 29724, 29986, 30302, 30509.

NORTHWEST TERRITORIES - 30820, 31189, 31224, 32020, 32083, 32281.

Polyblastia intercedens (Nyl.) Lönnr.

Synonymy: P. hyperborea Th.Fr., P. intergrascens (Nyl.) Vain.

Comment: There is a tremendous amount of variation in this group and it appears most sensible to group the named entities as one species (cfr. Lynge 1928).

Substrate: limestone, dolomite; rarely chert, calcareous sandstone, and calcareous siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - occasional.

Cover: YUKON: NA - present in 8 sites at +. NORTHWEST TERRITORIES: GAC - present in 5 sites at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972 as P. intergrascens, Thomson 1953 as P. intergrascens, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29042, 29150, 29193, 29725, 29770, 29985, 29987, 30022, 30303, NORTHWEST TERRITORIES - 20591, 20594, 30597, 30662, 30713, 30864, 30909, 31187, 31190, 31221.

Protoblastenia rupestris (Scop.) J. Stein

Substrate: limestone; twice on dolomite; once on calcareous sandstone, non-calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 8 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at 1%, and in 8 sites at +; NAC - present in 1 site at 3%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Lynge 1940, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29152, 29387, 29450, 29819, 29949, 30023, 30061, 30304, 30510. NORTHWEST TERRITORIES - 30598, 30600, 30708, 30865, 30910, 30953, 30978, 31023, 31082, 31083, 31144, 31276, 32238, 32282.

Pyrenula leucoplaca (Wallr.) Körb.

Substrate: Populus tremuloides.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31716, 31774, 31853.

Ramalina sp.

Substrate: Picea glauca, Picea mariana.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Voucher specimens: NORTHWEST TERRITORIES - not collected.

Ramalina minuscula (Nyl.) Nyl.

Substrate: Picea glauca, Alnus crispa, Picea mariana, Salix sp.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Krog 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28970. NORTHWEST TERRITORIES - 31694, 31704, 31736, 31915.

Ramalina pollinaria (Westr.) Ach.

Substrate: Picea mariana.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31916.

Rhizocarpon sp.

Substrate: chert.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - 30710.

Rhizocarpon badioatrum (Flörke. ex Spreng.) Th.Fr.

Substrate: sandstone; once on granite, diabase.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 4 sites at +.

Literature reports: Bird 1972, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30872, 31499, 31594, 31638, 31648.

Rhizocarpon chioneum (Norm.) Th.Fr.

Substrate: limestone; also dolomite, twice on partially dolomitized limestone, once dolomitized limestone; twice on calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - rare; NAC - abundant.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 6%, in 3 sites at 2%, in 2 sites at 1%, and in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at 2%, in 3 sites at 1%, and in 6 sites at +; GAS - present in 1 site at +; NAC - present in 1 site at 2%, in 2 sites at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29152a, 29233, 29325, 29385, 29388, 29451, 30305, 29458, 29726, 29866, 29950, 30024, 30511. NORTHWEST TERRITORIES - 30592, 30659, 30663, 30714, 30866, 30954, 31022, 31084, 31191, 31277, 31447, 32239, 32283.

Rhizocarpon cinereovirens (Müll.Arg.) Vain.

Substrate: Partially dolomitized limestone, sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 5%.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29458. NORTHWEST TERRITORIES - 31446.

Rhizocarpon concentricum (Dav.) Beltr.

Substrate: granite, shaly dolomite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29332. NORTHWEST TERRITORIES - 31079.

Rhizocarpon crystalligenum Lynge.

Substrate: quartzite; once on chert, sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at 3%, and in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 3%.

Literature reports: Bird 1972, Lynge 1940.

General distribution: American, Arctic Alpine. Thomson (1967a) states that this species grows on acid rocks and "is known from East Greenland and from Coronation Bay in the Arctic Islands. It is undoubtedly of wider range in the arctic".

Voucher specimens: YUKON - 29778, 29779, 29780, 29862. NORTHWEST TERRITORIES - 31596.

Rhizocarpon disporum (Naeg.) Müll.Arg.

Substrate: granite, quartzite.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +.

Literature reports: Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30502, 30515.

Rhizocarpon eupetraeoides (Nyl.) Blomb. & Forss.

Substrate; sandstone; once on chert, granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 10%, in 1 site at 6%, in 1 site at 3%, and in 1 site at +.

Literature reports: Bird 1972, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29863. NORTHWEST TERRITORIES - 31356, 31461, 31501, 31502, 31588.

Rhizocarpon geographicum (L.) DC.

Substrate: chert, sandstone, granite, siltstone, partially dolomitized limestone; twice on limestone, quartzite; once on diabase, dolomite, shaly dolomite, non-calcareous sandstone, calcareous siltstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - abundant; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 2 sites at 1%, and in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at 1%, and in 6 sites at +; GAS - present in 1 site at 20%, in 1 site at 5%, in 1 site at 4%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29091, 29328, 29452, 29459, 29460, 29723, 29768, 29864, 30306, 30395, 30441, 30516, 30520, NORTHWEST TERRITORIES - 30593, 30601, 30711, 30789, 30873, 31278, 31280, 31293, 31357, 31363, 31418, 31501, 31535, 31639, 32014, 32015, 32022, 32082, 32235.

Rhizocarpon macrosporum Räs.

Substrate: sandstone, quartzite, siltstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 3%, and in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30516, 30520. NORTHWEST TERRITORIES - 31415,
31649.

Rhizocarpon umbilicatum (Ram.) Jata.

Substrate: limestone; once dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;
GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
GAC - present in 2 sites at +; NAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29389. NORTHWEST TERRITORIES - 31145, 31222,
31297.

Rinodina archaea (Ach.) Arn.

Substrate: Picea glauca, Alnus crispa; twice on Salix sp.; once on
Alnus tenuifolia, Larix laricina.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare: NA -
absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +.
NORTHWEST TERRITORIES: GB - present in 6 sites at +.

Literature reports: Bird 1972, Scotter and Thomson 1966, Thomson et al.
1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28943, 30349. NORTHWEST TERRITORIES - 31691, 31697, 31704, 31737, 31770, 31796, 31827, 31830, 31836, 31906, 31946, 31953, 32204.

Rinodina cf. aterrima Krömp.

Substrate: granite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane?

Voucher specimen: NORTHWEST TERRITORIES - 30874.

Rinodina mmiaraea (Ach.) Körb.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30443.

Rinodina nimbosa var. nuda Lynge

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Lynge 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32244.

Rinodina nimbosa var. pruinosa (Havás.) Lynge

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Lynge 1940, Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 32032.

Rinodina roscida (Somm.) Arn.

Substrate: vegetabilia; rarely soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: NA - present in 13 sites at +. NORTHWEST TERRITORIES: GAC - present in 4 sites at +; NAC - present in 3 sites at +.

Literature reports: Bird 1972, Lynge 1940, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29018, 29019, 29041, 29146, 29239, 29333, 29339, 29691, 29826, 29911, 29940, 29953, 29992, 29993, 30066, 30309. NORTHWEST TERRITORIES - 30719, 30828, 30919, 30957, 30986, 31226, 32033.

Rinodina turfacea (Wahlenb.) Körb.

Substrate: vegetabilia, Salix sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Bird 1972, Lynge 1940, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30403. NORTHWEST TERRITORIES - 31987, 32332.

Solorina bispora Nyl.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - abundant.

Cover: YUKON: NA - present in 12 sites at +. NORTHWEST TERRITORIES: GAC - present in 8 sites at +; NAC - present in 5 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29001, 29113, 29208, 29242, 29352, 29692, 29840, 29920, 29943, 29957, 30038, 30259. NORTHWEST TERRITORIES - 30548, 30621, 30886, 30926, 30963, 30996, 31039, 31101, 31162, 31201, 32045, 32216, 32254.

Solorina crocea (L.) Ach.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31311.

Solorina saccata (L.) Ach.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - occasional.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29958. NORTHWEST TERRITORIES - 30681, 30887, 30927, 31102, 31202.

Sphaerophorus globosus (Huds.) Vain.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimens: YUKON - 30367, 30368.

Spilonema revertens Nyl.

Substrate: soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31536.

Sporastatia testudinea (Ach.) Mass.

Substrate: sandstone, quartzite; twice on granite, partially dolomitized limestone, siltstone; once on diabase, dolomite.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - common; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 5 sites at +.

NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 1 site at 20%, in 1 site at 5%, in 1 site at 4%, in 1 site at 3%, and in 1 site at 1%.

Literature reports: Bird 1972, Lynge 1940, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 39093, 29326, 29461, 29779, 29780, 30393, 30396, 30517. NORTHWEST TERRITORIES - 30875, 31268, 31294, 31300, 31352, 31364.

Staurothele sp.

Substrate: partially dolomitized limestone, dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Voucher specimens: YUKON - 29234. NORTHWEST TERRITORIES - 31223.

Staurothele bacilligera (Arnold.) Arnold.

Substrate: dolomitized limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31223.

Staurothele catalepta (Ach.) Blomb. & Forss.

Substrate: dolomite.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29229.

Stereocaulon alpinum Laur.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at 5%, and in 2 sites at +; NA - present in 1 site at 3%, and in 3 sites at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29114, 29293, 29556, 30080, 30206, 30260, 30369, 30412, NORTHWEST TERRITORIES - 31312, 31379.

Stereocaulon tomentosum Fr.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Bird 1972, Krog 1968, Thomson et al. 1969, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31670, 31750, 31864.

Thamnomia subuliformis (Ehrh.) W.Culb.

Synonymy: T. vermicularis (Sw.) Ach. ex Schaer., baeomycic acid strain;

T. subvermicularis Asah.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional; NA - abundant. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - occasional; NAC - abundant.

Cover: YUKON: GA - present in 1 site at 1%; NB - present in 1 site at 1%, and in 1 site at +; NA - present in 1 site at 3%, in 4 sites at 2%, in 12 sites at 1%, and in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 7 sites at 1%, and in 5 sites at +; GAS - present in 1 site at 1%, and in 2 sites at +; NAC - present in 2 sites at 1%, and in 3 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29002, 29032, 29061, 29115, 29170, 29209, 29243, 29294, 29353, 29415, 29693, 29751, 29795, 29841, 29882, 29921, 29944, 29959, 30002, 30039, 30261, 30457. NORTHWEST TERRITORIES - 30549, 30682, 30774, 30808, 30888, 30928, 30964, 30997, 31040, 31103, 31163, 31203, 31236, 31313, 31560, 31613, 31997, 32100, 32217, 32255.

Thelidium pyrenophorum (Ach.) Mudd

No specimens of this species were encountered during the present study. The material reported by Bird (1972) as Thelidium cf. pyrenophorum has been revised as follows: 26131 - Verrucaria muralis Ach. and Lecidea stigmatea Ach.; 26138 - Verrucaria muralis Ach.; 26176 - Thelidium pyrenophorum (Ach.) Mudd and Lecidea stigmatea Ach.; 26307 - Verrucaria muralis Ach.; and 26631 - Polyblastia intercedens (Nyl.) L  nner. and Verrucaria muralis Ach.

Thrombium epigaeum (Pers.) Schaer.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29922, 29960.

Toninia caeruleonigricans (Lightf.) Th.Fr.

Substrate: soil; twice on limestone; once on vegetabilia.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - occasional.

Cover: YUKON: GA - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 4 sites at +; NAC - present in 2 sites at +.

Literature reports: Thomson et al. 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29018, 30262, 30512. NORTHWEST TERRITORIES - 30550, 30772, 30929, 30965, 30966, 30979, 31998, 32218.

Toninia candida (Web.) Th.Fr.

Substrate: vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Lynge 1940.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30829.

Toninia tristis (Th.Fr.) Th.Fr.

Substrate: soil, limestone, vegetabilia.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Bird 1972, Lynge 1940.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30505. NORTHWEST TERRITORIES - 30551, 31999, 32034.

Umbilicaria cylindrica (L.) Del.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - abundant; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 4 sites at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31343, 31345, 31346, 31365, 31419, 31451, 31503, 31597, 31650.

Umbilicaria deusta (L.) Baumg.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31411, 31504, 31532.

Umbilicaria hyperborea (Ach.) Ach.

Substrate: sandstone; once on siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - abundant; NAC - absent.

Cover: YUKON: NA - present in 1 site at 1%. NORTHWEST TERRITORIES: GAS - present in 4 sites at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30397. NORTHWEST TERRITORIES - 31344, 31412, 31452, 31505, 31598, 31651.

Umbilicaria polyphylla (L.) Baumg.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%.

Literature reports: Bird 1972, Hansen 1971, Krog 1968, Scotter and Thomson 1966.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31652.

Umbilicaria proboscidea (L.) Schrad.

Substrate: sandstone, granite, siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: YUKON: NA - present in 1 site at 1%. NORTHWEST TERRITORIES: GAS - present in 1 site at 15%, in 1 site at 5%, in 1 site at 4%, and in 1 site at +.

Literature reports: Bird 1972, Hansen 1962, Hansen 1971, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30398. NORTHWEST TERRITORIES - 30876, 30877, 31413, 31462, 31506.

Usnea alpina Mot.

Substrate: Picea glauca.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31970.

Usnea glabrescens (Nyl. ex Vain.) Vain.

Substrate: Picea mariana, Betula papyrifera, Picea glauca, Alnus crispa; twice on Pinus divaricata; once on Alnus tenuifolia, Larix laricina, Salix sp., rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional; NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 4 sites at +; NB - present in 2 sites at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 7 sites at +.

Literature reports: reported as Usnea glabrescens ssp. glabrella Mot. in Bird 1972, Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28944, 28958, 28971, 29506, 29543, 29607, 30191, 30235, 30308. NORTHWEST TERRITORIES - 31695, 31705, 31771, 31838, 31848, 31907, 31917, 31954, 31964, 31988, 32404, 32413, 32442, 32451, 32453, 32463.

Usnea soreidiifera (Arn.) Lynge

Substrate: Picea glauca; once on Alnus crispa, Picea mariana, Pinus divaricata, Salix sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent.

NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Krog 1968, Thomson et al. 1969.

General distribution: Circumpolar, Boreal Montane?

Voucher specimens: YUKON - 30192. NORTHWEST TERRITORIES - 31706, 31714, 31738, 31828, 31971, 32205.

Verrucaria muralis Ach.

Comment: see notes under Thelidium pyrenophorum.

Substrate: limestone, dolomite; and once each on partially dolomitized limestone and calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29269, 29327, 29389, 29446, 29447, 29771, 29820. NORTHWEST TERRITORIES - 30664, 30709.

Verrucaria virens Nyl.

Substrate: limestone, dolomitized limestone, dolomite, shaly dolomite, calcareous sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Arctic-Boreal Alpine-Montane?

Voucher specimens: YUKON - 29324, 29331. NORTHWEST TERRITORIES - 30660, 31146, 31224, 32020.

Xanthoria candelaria (L.) Th.Fr.

Substrate: Picea glauca.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hansen 1962, Hansen 1971, Krog 1968, Lynge 1940, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 28972.

Xanthoria elegans (Link) Th.Fr.

Synonymy: Caloplaca elegans (Link) Th.Fr.

Substrate: limestone, granite, quartzite, chert; once on sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - rare; NAC - occasional.

Cover: YUKON: GA - present in 1 site at 1%; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 10%, in 1 site at 1%, and in 6 sites at +; GAS - present in 1 site at 1%; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Krog 1968, Scotter and Thomson 1966, Thomson et al. 1969, Thomson 1970, Weber and Viereck 1967.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29153, 29865, 30025, 30307, 30498, 30502, 30518. NORTHWEST TERRITORIES - 30594, 30596, 30712, 30821, 30822, 30823, 30912, 30980, 31023, 31279, 32021, 32023, 32236.

Liverworts

Fourteen species of liverworts were encountered during the study: YUKON - 5 at GB, 2 at NB, and 3 at NA; NORTHWEST TERRITORIES - 2 at GB, 5 at GAC, 8 at GAS, and 1 at NAC.

The distribution of each species in nearby areas is indicated by the citation, under "Literature Reports", of the following sources: Northwest Territories - Gordon Lake Region (Scotter 1962), Mackenzie Delta Region (Steere 1958b), Mackenzie River Area (Bird 1972), Thelon River and Kaminuriak Lake Region (Scotter 1966); Alaska - Interior Region (Persson and Gjaerevoll 1957); Northwestern Manitoba - Cochrane River Region (Scotter 1965); and Eastern North America (Schuster 1966, 1969).

Nomenclature is based on Schuster (1966, 1969).

The "General distribution" of each taxon was determined from the above sources, from Herbarium specimens, and from Arnell (1956) and Schuster (1953, 1966, 1969).

Anastrophyllum minutum (Schreb. ex Crantz) Schust.

Synonymy: Sphenolobus minutus (Crantz) Steph.

Substrate: soil.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 4 sites at +. NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 2 sites at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Schuster 1969, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28919, 29557, 29585, 29627, 29628, 30125, 30126, 30131, 30265. NORTHWEST TERRITORIES - 31044, 31380, 31436.

Blepharostoma trichophyllum (L.) Dumort.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Schuster 1966, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30775, 31044, 31164.

Cephalozia media Lindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31044.

Chandonanthus setiformis (Ehrh.) Lindb.

Synonymy: Temnoma setiforme (Ehrh.) M.A.Howe

Substrate: sandstone, soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Schuster 1969, Scotter 1962, Scotter 1966.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31437, 31453, 31454, 31455, 31480, 31482, 31552, 31561.

Clevea hyalina (Somm.) Lindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 32333.

Gymnomitrium coralloides Nees.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31386.

Lophocolea minor Nees

Substrate: rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: YUKON - 28993.

Lophozia sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 7%; GAS - present in 1 site at +.

Voucher specimens: NORTHWEST TERRITORIES - 31481, 32355.

Lophozia quadriloba (Lindb.) Evans.

Synonymy: Orthocaulis quadrilobus (Lindb.) Buch.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Persson and Gjaerevoll 1957, Schuster 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31484.

Mylia anomala (Hook.) Gray

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Schuster 1969, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29518.

Plagiochila asplenioides (L.) Duniort.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Scotter 1965.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: YUKON - 29359.

Ptilidium ciliare (L.) Hampe

Substrate: soil, rotten wood; twice on Betula papyrifera, Picea glauca, Pinus divaricata; rarely Picea mariana.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 2 sites at +; NB - present in 1 site at 1%; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 9 sites at +; GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 2 sites at 2%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Schuster 1966, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28975, 28990, 29520, 29803, 30084, 30108, 30214. NORTHWEST TERRITORIES - 30556, 30632, 31389, 31390, 31487, 31522, 31567, 31672, 31791, 31814, 31849, 31881, 31922, 31932, 31965, 31972, 31979, 32347, 32414, 32443, 32464.

Scapania undulata (L.) Dumort.

Substrate: sandstone, soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 2 sites at +.

Literature reports: Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31455, 31552, 31599.

Tritomaria quinquentata (Huds.) Buch.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Persson and Gjaerevoll 1957, Schuster 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31442.

Tritomaria scitula (Tayl.) Joerg.

Substrate: rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Schuster 1969.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 28990.

Peat Mosses

Nine species of Sphagnum were encountered during the study: YUKON - 6 at GB, 6 at NB, and 2 at NA; NORTHWEST TERRITORIES - 3 at GB, 1 at GAC, 4 at GAS, and 0 at NAC.

The distribution of each species in nearby areas is indicated by the citation, under "Literature Reports", of the following sources: Northwest Territories - Gordon Lake Region (Scotter 1962), Mackenzie Delta Region (Steere 1958b), Mackenzie River Area (Bird 1972), Thelon River and Kaminuriak Lake Region (Holmen and Scotter 1967); Alaska - Interior Region (Persson and Gjaerevoll 1957); and Northwestern Manitoba - Cochrane River Region (Scotter 1965).

The "General distribution" of each taxon was determined from the above sources and from Isoviita (1966).

Nomenclature is that of Isoviita (1966).

Low Arctic and Subarctic Sphagnums are important because of their extensive cover in wetland communities yet they are difficult to identify because of their general lack of field characteristics and because none of the papers dealing with the group in the Canadian North has included a key. The following key was compiled from the literature and from examination of herbarium material. The assistance of A.H. Marsh and C. Wallis is acknowledged.

KEY TO SPHAGNUM SPECIES OF THE ARCTIC (December 20, 1972)

1. Fibril bands present in the cortical cells of the stem and branches.....2
1. Fibril bands absent in the cortical cells of the stem and branches.....3
 2. Chlorophyllose cells broadly enclosed on both sides by hyaline cells in the branch leaves.....magellanicum Brid.
 2. Chlorophyllose cells \pm triangular, exposed on the concave side of the leaf in the branch leaves.....imbricatum Russ.
3. Chlorophyllose cells exposed on the concave side in the branch leaves.....4
3. Chlorophyllose cells not exposed on the concave side in the branch leaves.....10
 4. Stem leaves broadly fringed; plants entirely green or partly yellowish with pale green or yellowish stems..5
 4. Stem leaves narrowly fringed; plants reddish, brownish, variegated red-green, green or yellow or, if not, discard.....6
5. Stem leaves fringed round the apex and down the sides, hyaline cells of the stem leaves frequently divided.....
 -fimbriatum Wils.
5. Stem leaves fringed only across the broad apex, hyaline cells of the stem leaves usually not divided.....girgensohnii Russ.
 6. Stem dark brown; plants brown, pale yellow or variegated brown and dull green.....7
 6. Stem reddish or green, never dark brown; plants reddish, green or yellow.....8
7. Stem leaves lingulate-triangular, narrowly rounded or right-angled at apex.....subfulvum Sjors.
7. Stem leaves lingulate, broadly rounded at apex.....
 -fuscum (Schimp.) Klinggr.
 8. Pores in the upper cells of the convex side of the branch leaves small, never large; branch leaves distinctly arranged in rows, tips strongly divergent; stem leaves not or slightly fibrose.....warnstorffii Russ.
 8. Pores in the hyaline cells of the convex side of the branch leaves more or less large; branch leaves not or indistinctly arranged in rows, \pm divergent only on new growth.....9
9. Stem leaves lingulate, broadly rounded at the apex, in the upper part their hyaline cells short-rhomboid, not or only slightly fibrose.....rubellum Wils.
9. Stem leaves lingulate-triangular, narrowly rounded, \pm elongate, in the upper part their hyaline cells short or elongate, \pm fibrose.....nemoreum Scop.
10. Chlorophyllose cells not triangular, broadly or narrowly enclosed on both sides by hyaline cells....11
10. Chlorophyllose cells triangular, broadly exposed on the convex side in branch leaves.....14
11. Branch leaves broadly acute or with a broad, square apex; chlorophyllose cells broadly enclosed on both sides by hyaline cells.....12

11. Branch leaves acuminate in a narrow, sharp or square point; chlorophyllose cells narrowly enclosed by the hyaline cells.....13
12. Branch leaves broadly ovate, about the same length as the stem leaves; hyaline cells in the branches of two kinds - large retort cells and smaller cells without pores.....aongstroemii C.Hartm.
12. Branch leaves elongate-ovate, strongly cucullate, much longer than the stem leaves; hyaline cells of the branches of one kind, with a pore.....compactum DC.
13. Branch leaves strongly secund; hyaline cells of the convex side of the branch leaves with small, oval pores, along cell margins and 1-2 discontinuous rows in the cell lumen, \pm 50 pores cell.....perfoliatum Sav.-Lub.
13. Branch leaves straight or curved; hyaline cells of the convex side of the branch leaves with pores only along the cell margins, \pm 25 pores cell.....subsecundum Nees.
14. Stem reddish or dark brown.....15
14. Stem green, yellowish or pale brown, plants never reddish.....17
15. Stem and branch bases reddish, hyaline cells of stem leaves not or only slightly fibrose, stem leaves not fringed at the apex.....angustifolium (Russ.) C.Jens.
15. Stem dark brown; stem and branch bases never reddish, stem leaves broadly rounded, and fringed at the apex.....16
16. Stem leaf apex broadly fringed; hyaline cells of the upper stem leaves not fibrose; large plant....lindbergii Schimp.
16. Stem leaf apex deeply but not broadly fringed; hyaline cells of upper stem leaves more or less fibrose near the upper margins; small brown plant.....lenense Lindb.
17. Stem leaves without a border of narrow elongated cells in several rows in the upper part of the leaf, finely fringed across the broad round apex.....18
17. Stem leaves with a border of elongated cells in the upper part, not or only slightly fringed at the apex.....19
18. Branch leaves straight, hyaline cells shorter towards the apex.....teres (Schimp.) Angstr.
18. Branch leaves squarrose, hyaline cells elongate throughout.....squarrosum Crome
19. Stem leaves mostly hanging, more or less flat; hyaline cells in the upper part of the stem leaves not or only slightly fibrose; hanging branches longer and narrower than the divergent ones.....20
19. Stem leaves more or less spreading, strongly concave; hyaline cells in upper part of the stem leaves distinctly fibrose; hanging branches usually shorter than the divergent ones.....21
20. Hyaline cells of branch leaves linear-elliptic regular in appearance, small pores in rows visible in hyaline cells of branch leaves, with staining....obtusum Warnst.
20. Hyaline cells of branch leaves \pm irregularly rhomboid, pores larger and irregularly arranged, leaves with short, sharp, cucullate point.....fallax (Klinggr.) Klinggr.

21. Brownish plants, 3 branches per cluster....balticum (Russ.) C.Jens.
 21. Dull green plants, 4-5 branches per cluster,
 robust plant.....majus (Russ.) C.Jens.

Sphagnum angustifolium (Russ.) C.Jens.

Substrate: soil, twice soil in wet depression.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare;
 NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at 3%, and in 1 site at 1%.
 NB - present in 1 site at 2%. NORTHWEST TERRITORIES: GAS -
 present in 1 site at +.

Literature reports: Holmen and Scotter 1967, Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29666, 29670, 30085, 30114, 30128. NORTHWEST
 TERRITORIES - 31523.

Sphagnum balticum (Russ.) Russ. ex C.Jens.

Substrate: soil, once soil in wet depression.

Relative abundance: YUKON: GB - rare; GA - absent; NB - occasional;
 NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at
 3%, and in 1 site at +. NORTHWEST TERRITORIES: GB - present in
 1 site at 8%.

Literature reports: Holmen and Scotter 1967, Holmen and Scotter 1971,
 Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30115, 30129, 30177. NORTHWEST TERRITORIES - 32357.

Sphagnum fallax (Klinggr.) Klinggr. emend. Isov.

Synonymy: S. recurvum P. Beauv. sensu Amer. auct.

Substrate: soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 1 site at +.

Literature reports: Bird 1972, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29734, 30247.

Sphagnum fuscum (Schimp.) Klinggr.

Substrate: soil.

Relative abundance: YUKON: GB - common; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at 23%, in 1 site at 8%, in 1 site at 5%, in 1 site at 2%, and in 1 site at 1%; NB - present in 1 site at 12%, in 1 site at 10%, and in 1 site at 8%. NORTHWEST TERRITORIES: GB - present in 1 site at 15%, in 1 site at 5%, and in 1 site at 3%; GAS - present in 1 site at 2%.

Literature reports: Bird 1972, Holmen and Scotter 1967, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29485, 29486, 29487, 29518, 29632, 29667, 30086, 30124, 30130, 30131, 30167, 30178, 30215. NORTHWEST TERRITORIES - 32348, 32358, 32368.

Sphagnum lindbergii Schimp.

Substrate: soil, soil in wet depression.

Relative abundance: YUKON: GB - rare; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 2%; NB - present in 1 site at 2%, and in 2 sites at +.

Literature reports: Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29488, 30153, 30179, 30216.

Sphagnum magellanicum Brid.

Substrate: soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Scotter 1965.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimen: YUKON - 29735.

Sphagnum nemoreum Scop.

Synonymy: S. capillaceum (Weiss) Schrank.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at 2%.

Literature reports: Holmen and Scotter 1967, Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Subtropical Alpine-Montane.

Voucher specimens: YUKON - 29561, 29633.

Sphagnum rubellum Wils.

Synonymy: S. capillaceum var. tenellum (Schimp.) Andr.

Substrate: soil, once soil in wet depression.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;

NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at 5%, and in 1 site at 2%; NB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAS - present in 1 site at 8%.

Literature reports: Bird 1972, Holmen and Scotter 1967, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29590, 30115, 30116, 30180, 30216, 30217.

NORTHWEST TERRITORIES - 31524, 32369.

Sphagnum warnstorffii Russ.

Synonymy: S. warnstorffianum Du Rietz

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 10%; GAS - present in 1 site at 3%.

Literature reports: Bird 1972, Holmen and Scotter 1967, Holmen and Scotter 1971, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31393, 32109.

Mosses

Eighty nine species of true mosses were encountered during the study: YUKON - 23 at GB, 9 at GA, 26 at NB, and 49 at NA; NORTHWEST TERRITORIES - 34 at GB, 41 at GAC, 21 at GAS, and 25 at NAC.

The distribution of each species in nearby areas is indicated by the citation, under "Literature Reports", of the following sources: Northwest Territories - Gordon Lake Region (Scotter 1962), Mackenzie Delta Region (Steere 1958b), Mackenzie River Area (Bird 1972), Northern Ellesmere Island (Brassard 1971c), Thelon River and Kaminuriak Lake Region (Scotter 1966); Alaska - Interior Region (Persson and Gjaerevoll 1957); Northwestern Manitoba - Cochrane River Region (Scotter 1965); and Greenland - Peary Land Region (Holmen 1960).

The "General distribution" of each taxon was determined from the above sources, from Herbarium specimens, and from Lawton (1971) and Nyholm (1954-1969).

Nomenclature is that of Crum, Steere, and Anderson (1965).

Abietinella abietina (Hedw.) Fleisch.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: NA - present in 6 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 4 sites at +; NAC - present in 3 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29043, 29062, 29116, 29295, 29354, 30263.

NORTHWEST TERRITORIES - 30683, 30809, 30930, 30967, 30998, 31104, 31927, 32046.

Andreaea rupestris Hedw.

Substrate: sandstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Brassard 1971c, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31414, 31453, 31653.

Aulacomnium acuminatum (Lindb. & Arn.) Par.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - occasional; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 2 sites at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 2%, in 1 site at 1%, and in 1 site at +; GAC - present in 2 sites at 10%, in 1 site at 2%, and in 2 sites at +.

Literature reports: Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal.

Voucher specimens: YUKON - 30318, 30370, 30413. NORTHWEST TERRITORIES - 30622, 30731, 31872, 32047, 32101, 32153, 32380.

Aulacomnium palustre (Hedw.) Schwaegr.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 3 sites at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28917, 28987, 29586, 30175. NORTHWEST TERRITORIES - 31751, 31813, 31873, 31928.

Aulacomnium turgidum (Wahlenb.) Schwaegr.

Substrate: soil; rarely rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - common; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 3 sites at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 2 sites at 2%, and in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28988, 30168, 30207, 30414. NORTHWEST TERRITORIES - 31381, 31515, 31518.

Brachythecium salebrosum (Web. & Mohr) B.S.G.

Substrate: twice on Populus tremuloides, rotten wood; once on Picea glauca, Populus balsamifera, soil.

Relative abundance: YUKON: GB - rare; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; GA - present in 1 site. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28918, 28973, 28989, 30537. NORTHWEST TERRITORIES - 31730, 31775.

Brachythecium turgidum (Hartm.) Kindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 2 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and
Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29796. NORTHWEST TERRITORIES - 30732, 30931,
31237, 32154.

Bryoerythrophyllum recurvirostre (Hedw.) Chen.

Synonymy: Barbula recurvirostris (Hedw.) Dix.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - occasional.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
NAC - present in 2 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and
Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 30371. NORTHWEST TERRITORIES - 30932. 30968.

Bryum caespiticium Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Holmen and Scotter 1971, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimen: YUKON - 29171.

Bryum creberrimum Tayl.

Synonymy: B. cuspidatum (Bry.Eur.) Schimp., B. affine (Bruch) Schultz.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Holmen 1960, Holmen and Scotter 1971, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30623, 31671.

Bryum pallescens Schleich. ex Schwaegr.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Literature reports: Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30319.

Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Scherb.

Substrate: soil, once soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 1 site at 10%, and in 2 sites at +.

Literature reports: Bird 1972, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 30169. NORTHWEST TERRITORIES - 30733, 31105, 31929, 32155, 32331.

Bryum stenotrichum C.Müll.

Synonymy: B. inclinatum (Web. & Mohr) Sturm.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent..

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30264, 30371.

Bryum wrightii Sull. & Lesq.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29694, 29797. NORTHWEST TERRITORIES - 30840, 31204, 32219, 32300.

Calliergon stramineum (Brid.) Kindb.

Substrate: soil in wet depression.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30109.

Campylium hispidulum var. sommerfeltii (Myr.) Lindb.

Substrate: Picea mariana.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Scotter 1962.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31918.

Campylium stellatum (Hedw.) C.Jens.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +.

Literature reports: Bird 1972, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29416, 30267. NORTHWEST TERRITORIES - 30734, 31238, 32102.

Ceratodon purpureus Brid.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - rare; NAC - rare.

Cover: YUKON: GB - present in 1 site at 4%; NB - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 2 sites at +; GAS - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29044, 29171, 29664, 29699, 29797, 30170. NORTHWEST TERRITORIES - 30684, 31165, 31171, 31314, 31671, 31672, 31810, 32000.

Cinclidium stygium Sw.

Substrate: soil, twice on soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 3 sites at +.

Literature reports: Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30735, 30841, 31876, 32135, 32301, 32329.

Cirriphyllum cirrosum (Schwaegr. ex Schultes) Grout.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29417, 29842, NORTHWEST TERRITORIES - 30552, 30685, 30969, 31106.

Desmatodon latifolius (Hedw.) Brid.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -

rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 29883.

Desmatodon obtusifolius (Schwaegr.) Schimp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Boreal-Temperate Montane.

Voucher specimen: YUKON - 29296.

KEY TO ARCTIC DICRANUM SPECIES

Low Arctic and Subarctic Dicranums are important because of their extensive cover in wetland communities yet they are difficult to identify because of they general lack of field characteristics and because none of the papers dealing with the group in the Canadian North has included a key. The following key was compiled from the literature and from examination of herbarium material. The assistance of A.H. Marsh and C. Wallis is acknowledged.

1. Costa with 2-4 lamellae on the back in the upper part of the leaf; elongate cells present in the upper part of the leaf (usually more than 2:1), with many pits.....2
1. Costa lacking lamellae on the back in the upper part of the leaf; upper leaf cells with few or no pits, usually less than 2:1 (except in D. angustum).....3
2. Costa 1/12 to 1/16 the width of the leaf base; leaves strongly undulate, never falcate-secund, spinosely

- serrate from above the middle.....polysetum Sw.
2. Costa 1/5 to 1/8 the width of the leaf base; leaves not or only slightly undulate, sometimes falcate-secund, strongly serrate above.....scoparium Hedw.
3. Leaves straight and fragile, points mostly broken; costa excurrent, in x.s. with stereid bands weak or none.....fragilifolium Lindb. in Schimp.
3. Leaves falcate, crisped or straight, points rarely broken; costa in x.s. with stereid bands, costa ending below apex to excurrent.....4
4. Costa with differentiated cells above the stereids...5
4. Costa without differentiated cells above the stereids.....6
5. Leaves crisped, serrate near the apex; costa 1/4 to 1/7 the width of the leaf base; leaf cells thin or thick walled.....muehlenbeckii B.S.G.
5. Leaves straight, entire or serrate near the apex; costa 1/6 to 1/10 the width of the leaf base; leaf cells thick walled.....spadiceum Zett.
6. Upper leaf cells elongate almost to the apex (2-4:1); apex blunt to subacute.....angustum Lindb.
6. Upper leaf cells not elongate near the apex (1-2:1); apex acute to blunt.....7
7. Leaf apex blunt, rounded, leaves mostly entire...groenlandicum Brid.
7. Leaf apex acute, leaves entire to serrate.....8
8. Leaves serrate to serrulate from the middle to the apex; leaves undulate to smooth.....9
8. Leaves entire or serrate only near the apex, smooth (rarely slightly undulate in D. acutifolium.....10
9. Leaves usually undulate, never falcate-secund; costa ending before the apex to percurrent.....undulatum Brid.
9. Leaves never undulate, usually somewhat falcate-secund; costa excurrent.....fuscescens Turn.
10. Costa less than 1/6 the width of the leaf base; leaves straight.....spadiceum Zett.
10. Costa 1/3 to 1/5 the width of the leaf base; leaves straight or crisped.....11
11. Leaves keeled above, usually more than .5 mm wide; costa percurrent or ending a few cells below the apex.....acutifolium (Lindb. & Arn.) C.Jens.
11. Leaves tubulose above, less than .5 mm wide; costa percurrent or shortly excurrent.....elongatum Schleich.

Dicranum acutifolium (Lindb. & H.Arnell) C.Jens. ex Weinm.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - rare; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 1 site at +.

NORTHWEST TERRITORIES: GB - present in 1 site at 1%; GAC - present in 2 sites at +; GAS - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29117, 30126. NORTHWEST TERRITORIES - 30736, 31614, 32103, 32381.

Dicranum angustum Lindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 2%.

Literature reports: Holmen and Scotter 1971, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32344.

Dicranum elongatum Schleich. ex Schwaegr.

Substrate: soil.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - common; NAC - rare.

Cover: YUKON: GB - present in 3 sites at +; NB - present in 3 sites at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 3%; GAC - present in 4 sites at +; GAS - present in 5 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1961, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29557, 29626, 29798, 30081, 30171, 30265, 30320, 30415. NORTHWEST TERRITORIES - 30737, 30842, 30999, 31382, 31481, 31482, 31514, 31519, 31562, 31615, 32048, 32302, 32345.

Dicranum fragilifolium Lindb.

Substrate: rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Persson and Gjaerevoll 1957, Scotter 1965.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 28990.

Dicranum fuscescens Turn.

Substrate: soil, once soil in wet depression; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - common; GAS - common; NAC - occasional.

Cover: YUKON: GB - present in 1 site at 1%, and in 4 sites at +; NB - present in 1 site at 1%, and in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at 1%, and in 3 sites at +; GAC - present in 1 site at 1%, and in 6 sites at +; GAS - present in 5 sites at +; NAC - present in 1 site at 2%, and in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28919, 29558, 29587, 29628, 29695, 29799, 30110, 30208, 30266, 30321, 30372. NORTHWEST TERRITORIES - 30624, 31000, 31041, 31107, 31166, 31239, 31383, 31438, 31483, 31563, 31616, 31617, 31752, 31874, 31977, 32049, 32104, 32156, 32303, 32382.

Dicranum groenlandicum Brid.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Literature reports: Holmen and Scotter 1971.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 30127.

Dicranum spadiceum Zett.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31384.

Dicranum undulatum Brid.

Synonymy: D. bergeri Bland.

Substrate: soil; twice on rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 2%, and in 3 sites at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at 2%, and in 2 sites at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28920, 29559, 29588, 29629, 30209. NORTHWEST TERRITORIES - 31753, 31785, 31865, 32367, 32426.

Distichium sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 6 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Voucher specimens: YUKON - 29210, 29297, 29355, 29418, 29923, 29945. NORTHWEST TERRITORIES - 30625, 32163.

Distichium capillaceum (Hedw.) B.S.G.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS -

absent; NAC - rare.

Cover: YUKON: NA - present in 3 sites at +. NORTHWEST TERRITORIES:

GB - present in 1 site at +; GAC - present in 5 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29118, 29172, 30267. NORTHWEST TERRITORIES - 30843, 31042, 31167, 31240, 31875, 31876, 31878, 32050, 32220.

Distichium inclinatum (Hedw.) B.S.G.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 2 sites at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Fjaerevoll 1957, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane

Voucher specimens: NORTHWEST TERRITORIES - 30686, 31876, 32256.

Ditrichum flexicaule (Schwaegr.) Hampe

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - abundant. NORTHWEST TERRITORIES: GB - occasional; GAC - abundant; GAS - occasional; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at 1%, and in 18 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 1 site at 1%, and in 14 sites at +; GAS - present in 2 sites at +; NAC - present in 1 site at 2%, and in 3 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29003, 29045, 29063, 29119, 29173, 29211, 29244, 29356, 29419, 29696, 29752, 29755, 29800, 29843, 29884, 29885, 29924, 29961, 30003, 30040, 30268, 30416, 30458, NORTHWEST TERRITORIES - 30553, 30559, 30626, 30687, 30775, 30810, 30844, 30889, 30933, 30970, 31001, 31043, 31044, 31108, 31167, 31168, 31205, 31240, 31241, 31385, 31439, 31786, 32051, 32053, 32105, 32157, 32159, 32221, 32257.

Drepanocladus exannulatus (B.S.G.) Warnst.

Substrate: soil; soil in wet depression.

Relative abundance: YUKON: GB - rare; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 2 sites at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 2%.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gaerevoll 1957, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30111, 30172, 30210. NORTHWEST TERRITORIES - 31537.

Drepanocladus fluitans (Hedw.) Warnst.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 2%.

Literature reports: Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32354.

Drepanocladus revolvens var. intermedius (Lindb. ex C.J.Hartm.) Richs.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 10%, in 1 site at 5%, and in 2 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30738, 30845, 32136, 32330.

Drepanocladus uncinatus (Hedw.) Warnst.

Substrate: soil; twice on rotten wood; once on Picea glauca, Populus balsamifera, Salix sp.

Relative abundance: YUKON: GB - rare; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; GA - present in 1 site;

NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +; GAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28921, 28974, 29120, 30005, 30538. NORTHWEST TERRITORIES - 30627, 31787, 31801, 31811, 31978.

Drepanocladus vernicosus (Lindb. ex C.Hartm.) Warnst.

Substrate: soil; soil in wet depression.

Relative abundance: YUKON: GB - rare; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1965, Scotter 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30112, 30174.

Encalypta sp.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Voucher specimen: YUKON - 29925.

Encalypta ciliata Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29697.

Encalypta rhaptocarpa Schwaegr.

Synonymy: both collections were of material classified as var.

subspathulata (C.Müll. & Kindb. ex Mac. & Kindb.) Flow. by Crum, Steere and Anderson (1965), however, it is considered to be merely a form by Lawton (1971).

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30890, 31002.

Encalypta vulgaris Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Brassard 1971c.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31169.

Eurhynchium pulchellum (Hedw.) Jenn.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 30373. NORTHWEST TERRITORIES - 31930.

Fissidens osmundioides Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Bird 1972, Holmen 1960, Holmen and Scotter 1971,
Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimen: YUKON - 30001.

Grimmia affinis Hornsch.

Synonymy: G. ovalis (Hedw.) Lindb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
GAS - present in 1 site at +.

Literature reports: Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29781. NORTHWEST TERRITORIES - 31654.

Grimmia alpicola Hedw.

Synonymy: Schistidium alpicola (Hedw.) Limpr.

Substrate: acidic rock.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30496.

Grimmia apocarpa Hedw.

Synonymy: Schistidium apocarpum (Hedw.) Br.Eur.

Substrate: limestone; once on partially dolomitized limestone, siltstone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 5%, and in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Scotter 1962.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29094, 30442. NORTHWEST TERRITORIES - 30715, 30824, 31024.

Grimmia atricha C.Müll. & Kindb.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at 5%.

Literature reports: Not reported in any of the selected sources.

General distribution: American, Montane.

Voucher specimen: YUKON - 29951.

Grimmia trichophylla Grev.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 30026.

Hylocomium splendens (Hedw.) B.S.G.

Substrate: soil; twice on rotten wood; rarely Salix sp.

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional;

NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - common;

GAS - common; NAC - occasional.

Cover: YUKON: GB - present in 1 site at 5%, in 1 site at 4%, in 1 site at 2%, and in 1 site at +; NB - present in 1 site at 4%, and in 1 site at +; NA - present in 1 site at 2%, and in 2 sites at +.

NORTHWEST TERRITORIES: GB - present in 2 sites at 20%, in 1 site at 8%, in 2 sites at 5%, and in 3 sites at +; GAC - present in 1 site at 27%, in 1 site at 10%, in 1 site at 5%, in 1 site at 3%, in 1 site at 2%, in 1 site at 1%, and in 2 sites at +; GAS - present in 1 site at 8%, in 1 site at 4%, in 1 site at 3%, and in 1 site at 1%; NAC - present in 1 site at 3%, and in 1 site at 1%.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28922, 29121, 29517, 30082, 30211, 30322.

NORTHWEST TERRITORIES - 30628, 30739, 31045, 31109, 31170, 31387, 31520, 31618, 31673, 31788, 31802, 31812, 31877, 31921, 31931, 32052, 32106, 32158, 32258, 32304, 32383, 32427.

Hypnum bambergeri Schimp.

Substrate: soil; rarely dung.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%, and in 12 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 2%; GAC - present in 1 site at 2%, and in 9 sites at +; NAC - present in 4 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29046, 29064, 29122, 29174, 29212, 29298, 29420, 29698, 29753, 29801, 29844, 29885, 29886, 29900, 29926, 30459. NORTHWEST TERRITORIES - 30554, 30629, 30688, 30846, 30934, 30971, 31046, 31047, 31110, 31171, 31206, 32053, 32107, 32159, 32222, 32259.

Hypnum bridelianum Crum, Stere & Anderson

Synonymy: H. ravaudii ssp. fastigiatum (Brid.) Wijk & Marg., H. fastigiatum (Brid.) Hartm.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Scotter 1965.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29123, 29754, 29962.

Hypnum callichroum Funck ex Brid.

Substrate: rotten wood, Betula papyrifera.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Steere 1958b.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 28959, 28991, 28992.

Hypnum procerrimum Mol.

Synonymy: Pseudostereodon procerrimum (Mol.) Fleisch.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 4 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29357, 29963. NORTHWEST TERRITORIES - 30689, 30847, 31048, 31242.

Hypnum revolutum (Mitt.) Lindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - rare.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1961, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31003, 31619.

Hypnum vaucheri Lesq.

Substrate: soil; rarely limestone.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - rare; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 3%, and in 2 sites at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29047, 29213, 29245, 29358, 30004, 30041, 30460, NORTHWEST TERRITORIES - 30811, 30825, 31620, 32001, 32260.

Meesea uliginosa Hedw.

Substrate: soil; once soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 2 sites at +; GAC - present in 1 site at 2%, in 1 site at 1%, and in 5 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30630, 30740, 31049, 31878, 32054, 32108, 32160, 32261, 32305, 32331, 32354.

Mnium blyttii B.S.G.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30848, 30894.

Mnium orthorrhynchum Brid.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29124, 29246. NORTHWEST TERRITORIES - 31172.

Myurella julacea (Schwaegr.) B.S.G.

Substrate: soil; once on vegetabilia.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NB - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 2 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29125, 29845, 29887, 30269, 30443. NORTHWEST TERRITORIES - 30849, 30891, 31164, 31167, 32160.

Oncophorus wahlenbergii Brid.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 2 sites at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29175, 29299, 30461. NORTHWEST TERRITORIES - 31243, 31879, 32306.

Orthothecium chryseum (Schwaegr.) B.S.G.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31244.

Orthotrichum alpestre Hornsch. ex B.S.G.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30555.

Orthotrichum rupestre Schleich. ex Schwaegr.

Substrate: limestone.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:

NAC - present in 1 site at +.

Literature reports: Bird 1972.

General distribution: Circumpolar, Western Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29154. NORTHWEST TERRITORIES - 30981.

Plagiomnium medium (B.S.G.) Kop.

Synonymy: Mnium medium Br.Eur.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES:

GB - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28924. NORTHWEST TERRITORIES - 31880.

Pleurozium schreberi (Brid.) Mitt.

Substrate: soil; once on rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - rare; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 4 sites at +; NB - present in 1 site at 1%; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 1 site at +; GAC - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: YUKON - 29360, 29519, 29560, 29589, 29630, 30212.

NORTHWEST TERRITORIES - 31111, 31388, 31789, 32384.

Pogonatum alpinum (Hedw.) Röhl. var. alpinum

Synonymy: Polytrichum alpinum Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30213. NORTHWEST TERRITORIES - 31389, 31485, 31564.

Pogonatum urnigerum (Hedw.) Beauv.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 2%.

Literature reports: Not reported in any of the selected sources.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31440.

Pohlia cruda (Hedw.) Lind.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29755, 30631.

Pohlia nutans (Hedw.) Lindb.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAS - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28992, 29699, 30006, 30083, 30170, 30173.

NORTHWEST TERRITORIES - 31565, 31790.

Polytrichum commune Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Scotter 1962, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimen: YUKON - 30174.

Polytrichum juniperinum Hedw.

Substrate: soil; once soil in wet depression; rarely rotten wood.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 10%, and in 2 sites at +; NB - present in 1 site at 1%; NA - present in 3 sites at +.

NORTHWEST TERRITORIES: GB - present in 1 site at 4%, in 1 site at 3%, and in 4 sites at +; GAS - present in 1 site at 6%, in 1 site at 4%, in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 28925, 28994, 29486, 29665, 29699, 29733, 29802, 30175, 30176, 30374. NORTHWEST TERRITORIES - 31384, 31389, 31515, 31521, 31564, 31813, 32346, 32356.

Polytrichum juniperinum var. gracilius Wahlenb.

Synonymy: P. juniperinum var. alpestre (Hoppe) B.S.G., P. strictum Sm.,
P. strictum Banks.

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports; Bird 1972, Holmen 1960, Persson and Gjaerevoll 1957,
Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29631.

Polytrichum piliferum Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES:
GAS - present in 3 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and
Scotter 1971, Persson Gjaerevoll 1957, Scotter 1962, Scotter 1965,
Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES - 31315,
31486, 31566.

Ptilium crista-castrensis (Hedw.) De Not.

Substrate: soil, rotten wood.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +.

Literature reports: Bird 1972, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: YUKON - 28923. NORTHWEST TERRITORIES - 31792, 31815.

Pylaisiella polyantha (Hedw.) Grout

Synonymy: Pylaisia polyantha (Hedw.) Br.Eur.

Substrate: rotten wood; twice on Populus tremuloides; once on Alnus crispa, Betula papyrifera, Salix sp.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Persson and Gjaerevoll 1957, Scotter 1962.

General distribution: Circumpolar, Boreal-Temperate Montane.

Voucher specimens: YUKON - 28960, 28995. NORTHWEST TERRITORIES - 31717, 31731, 31772, 31854, 31980, 31989.

Rhacomitrium canescens (Hedw.) Brid.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -

rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971,
Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31316.

Rhacomitrium lanuginosum (Hedw.) Brid.

Substrate: soil; rarely sandstone.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA -
common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
common; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at 1%;
NA - present in 1 site at 1%, and in 7 sites at +. NORTHWEST
TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site
at 5%, in 2 sites at 2%, in 1 site at 1%, and in 1 site at +; NAC -
present in 1 site at 1%.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and
Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29065, 29126, 29421, 29756, 29804, 29846,
29888, 30417, 30462. NORTHWEST TERRITORIES - 31004, 31050, 31391,
31441, 31456, 31488, 31568, 31621.

Rhytidium rugosum (Hedw.) Kindb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - occasional; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at 1%; NA - present in 9 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 2 sites at 1%, and in 5 sites at +; GAS - present in 1 site at 2%, in 1 site at 1%, and in 1 site at +. NAC - present in 1 site at +.

Literature reports: Bird 1972, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29048, 29066, 29176, 29300, 29361, 29422, 30042, 30270, 30375, 30463. NORTHWEST TERRITORIES - 30557, 30690, 30935, 31051, 31392, 31622, 32055, 32161, 32262.

Scorpidium turgescens (T.Jens.) Loeske.

Substrate: soil in wet depression.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen and Scotter 1971.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 32137.

Splachnum luteum Hedw.

Substrate: dung.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: This species was not found in any of the sites; however, material was obtained on June 29, 1972 at the following location: YUKON: lake 4 miles east of the Peel River, 50 miles south of Fort McPherson; aspect - $66^{\circ}43'N$, $134^{\circ}31'W$; elevation - 200 ft.; habitat - open Picea mariana muskeg.

Literature reports: Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - S.Zoltai s.n.

Splachnum rubrum Hedw.

Substrate: dung.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: This species was not found in any of the sites; however, material was obtained on June 29, 1972 at the following location: lake 4 miles east of the Peel River, 50 miles south of Fort McPherson; aspect - $66^{\circ}43'N$, $134^{\circ}31'W$; elevation - 200 ft.; habitat - open Picea mariana muskeg. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - S.Zoltai s.n. NORTHWEST TERRITORIES - 30757.

Stegonia latifolia var. pilifera (Brid.) Broth.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Brassard 1971c.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 29889.

Tetraplodon mnioides (Hedw.) B.S.G.

Synonymy: including T. urceolatus (Brid.) B.S.G. which is regarded as a reduced form unworthy of taxonomic recognition (Brassard 1971c, Crum 1969, Steere 1959a).

Substrate: dung.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NA - present in 3 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1965, Scotter 1966.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28976, 29083, 29384, 29899, 29900. NORTHWEST TERRITORIES - 31269.

Timmia austriaca Hedw.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29127, 29423, 30271.

Tomenthypnum nitens (Hedw.) Loeske

Substrate: soil.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - common; GAS - absent; NAC - occasional.

Cover: YUKON: GB - present in 1 site at +; NA - present in 5 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 20%, in 1 site at 10%, and in 2 sites at 1%; GAC - present in 1 site at 20%, in 2 sites at 5%, in 1 site at 4%, in 1 site at 1%, and in 5 sites at +; NAC - present in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1962, Scotter 1965, Scotter 1966, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28926, 29049, 29128, 29362, 29757, 29805. NORTHWEST TERRITORIES - 30558, 30559, 30633, 30691, 30741, 30850, 31005, 31052, 31112, 31173, 31245, 31882, 31933, 32056, 32110, 32162, 32307, 32428.

Tortella fragilis (Hook. ex Drumm.) Limpr.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 15 sites at +. NORTHWEST TERRITORIES: GAC - present in 6 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957, Scotter 1965, Steere 1958b.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29003, 29050, 29067, 29129, 29177, 29214, 29247, 29301, 29363, 29424, 29758, 29806, 29890, 29927, 29964. NORTHWEST TERRITORIES - 30560, 30634, 30892, 31207, 31246, 32002, 32263.

Tortella tortuosa (Hedw.) Limpr.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 12 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 10 sites at +; NAC - present in 4 sites at +.

Literature reports: Bird 1972, Holmen 1960, Holmen and Scotter 1971, Persson and Gjaerevoll 1957.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29178, 29248, 29364, 29425, 29700, 29759, 29807, 29847, 29928, 29965, 30007, 30043, 30464. NORTHWEST TERRITORIES - 30561, 30635, 30893, 30894, 30936, 31006, 31053, 31174, 31208, 31247, 31287, 32003, 32057, 32163, 3223, 32264.

Tortula ruralis (Hedw.) Gaertn., Meyer & Scherb.

Substrate: soil.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 4 sites at +; NAC - present in 3 sites at +.

Literature reports: Bird 1972, Brassard 1971c, Holmen 1960, Holmen and Scotter 1971, Persson & Gjaerevoll 1957, Scotter 1962, Scotter 1965.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: YUKON - 29249, 29365, 29426, 29808, 29891, 30272, 30465. NORTHWEST TERRITORIES - 30562, 30692, 30812, 30937, 30972, 31007, 31054.

Voitia hyperborea Grev. & Arnott

Substrate: dung.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Brassard 1971c, Holmen 1960, Holmen and Scotter 1971.

General distribution: American, Arctic Alpine.

Voucher specimen: YUKON - 29900.

Herbaceous Plants

One hundred and fifty-four taxa of herbaceous plants were encountered during the study: YUKON - 17 at GB, 37 at GA, 31 at NB, and 63 at NA; NORTHWEST TERRITORIES - 45 at GB, 84 at GAC, 34 at GAS, and 30 at NAC.

The "Literature Reports" section indicated the occurrence of the taxa in each of the following areas: vicinity of Norman Wells (Cody 1960); along the Canol Road on the East Slope of the Mackenzie Mountains (Porsild 1945); Mackenzie River Area (Bird 1972); Alaska and neighbouring Territories (Hultén 1968); and the Churchill Area, Manitoba (Ritchie 1956).

The "General distribution" of each species was determined from all of the above sources but especially from Hultén (1968).

Nomenclature is that of Hultén (1968).

Amerorchis rotundifolia (Banks) Hult.

Synonymy: Orchis rotundifolia Pursh

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 30526. NORTHWEST TERRITORIES - 31883, 31936, 32111.

Androsace chamaejasme ssp. lehmanniana (Spreng.) Hult.

Synonymy: A. chamaejasme var. arctica R. Knuth

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - abundnat. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - abundant.

Cover: YUKON: NB - present in 1 site at +; NA - present in 17 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 12 sites at +; NAC - present in 1 site at 1%, and in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29004, 29068, 29179, 29250, 29367, 29701, 29760, 29809, 29892, 29966, 30008, 30273, 30323. NORTHWEST TERRITORIES - 30564, 30637, 30742, 30938, 31008, 31114, 32165.

Anemone drummondii S.Wats.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29427, 30274. NORTHWEST TERRITORIES - 31317.

Anemone multifida Poir.

Synonymy: A. multifida var. hudsoniana DC.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC absent;

GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31675.

Anemone parviflora Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - occasional.

Cover: YUKON: NB - present in 1 site at +; NA - present in 7 sites at +.

NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 7 sites at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29005, 29303, 29967. NORTHWEST TERRITORIES - 30638, 30939, 31009, 31056, 31115, 32166, 32265.

Anemone richardsonii Hook.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30639.

Antennaria friesiana ssp. compacta (Malte) Hult.

Synonymy: A. compacta Malte

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 6 sites at +.

Literature reports: Bird 1972, Hultén 1968.

General distribution: American, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30565, 30693, 30895, 31058, 32004, 32167, 32224, 32266.

Antennaria friesiana (Trautv.) Ekman. ssp. friesiana

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31569.

Antennaria monocephala DC. ssp. monocephala var. monocephala

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31116.

Arctagrostis latifolia var. arundinacea (Trin.) Griseb.

Synonymy: A. arundinacea (Trin.) Beal

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30743, 30851, 32113.

Arnica alpina ssp. angustifolia (M.Vahl.) Maguire

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 2 sites at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 4 sites at +; GAS - present in 3 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30276, 30324, 30376, 30418, 30466. NORTHWEST TERRITORIES - 30566, 31118, 31248, 31318, 31570, 31623, 32059, 32168.

Artemisia arctica Less. ssp. arctica

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 3 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31624.

Aster sibiricus L.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: YUKON - 30527.

Astragalus alpinus L. ssp. alpinus

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 1 site at +.

NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30277, 30325. NORTHWEST TERRITORIES - 30694.

Astragalus Umbellatus Bunge

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 3 sites at +.

NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29215, 29304, 29428, 30467. NORTHWEST
TERRITORIES - 31057, 31119.

Boschniakia rossica (Cham. & Schlecht.) Fedtsch.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: Amphi-Beringian, Western Boreal Montane.

Voucher specimen: YUKON - 28927.

Braya henryae Raup.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC -
present in 4 sites at +.

Literature reports: Hultén 1968.

General distribution: American, Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30568, 30641, 30897, 32005,
32170.

Braya humilis ssp. richardsonii (Rydb.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Western Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29006.

Bupleurum triradiatum ssp. arcticum (Regel.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 30327, 30420.

Calamagrostis purpurascens R.Br. ssp. purpurascens

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30279, 30469.

Campanula uniflora L.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 3 sites at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30377, 30470. NORTHWEST TERRITORIES - 30777, 31319, 31572, 31626, 32226.

Cardamine bellidifolia L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31395.

Cardamine purpurea Cham. & Schlecht.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 4 sites at +.

Literature reports: Hultén 1968.

General distribution: American, Western Arctic Alpine.

Voucher specimens: YUKON - 29429, 29702, 29968.

Carex sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 1%; GAS - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Carex capillaris L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at 2%; NA - present in 1 site at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30280, 30328.

Carex eburnea Boott.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31120, 31249.

Carex glacialis Mack.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at 1%. NORTHWEST TERRITORIES: GAC - present in 1 site at 10%, in 2 sites at 4%, in 1 site at 2%, and in 1 site at 1%.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29703, 30044. NORTHWEST TERRITORIES - 30569, 31288, 32006, 32227, 32268.

Carex membranacea Hook.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 2%; GAC - present in 1 site at 10%, in 1 site at 3%, and in 2 sites at 2%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30852, 31250, 32061, 32171, 32309.

Carex microchaeta Holm.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare: NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at 2%; NA - present in 1 site at 2%. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site at 5%, in 1 site at 2%, and in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Western Arctic Alpine.

Voucher specimens: YUKON - 30378, 30421. NORTHWEST TERRITORIES - 31320, 31489, 31627, 32062.

Carex misandra R.Br.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at 2%; NA - present in 1 site at 10%, in 2 sites at 5%, in 1 site at 4%, in 3 sites at 3%, in 3 sites at 2%, in 1 site at 1%, and in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 5%, and in 2 sites at 2%; NAC - present in 1 site at 5%, and in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29182, 29216, 29305, 29368, 29704, 29761, 29810, 29848, 29893, 29929, 29969, 30009, 30045, 30471. NORTHWEST TERRITORIES - 30570, 30695, 30940, 31176, 31209, 31251.

Carex nardina E.Fries

Synonymy: C. nardina var. hepburnii (Boott.) Kük.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - rare; NAC - common.

Cover: YUKON: NA - present in 1 site at 9%, in 1 site at 4%, in 3 sites at 1%, and in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 4%, in 1 site at 3%, and in 1 site at 1%; GAS - present in 1 site at +; NAC - present in 3 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29007, 29070, 29130, 29217, 29251, 29430.

NORTHWEST TERRITORIES - 30642, 30941, 31010, 31060, 31210, 31289, 31321.

Carex petricosa Dew.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 3%, in 2 sites at 2%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: American, Western Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30643, 30898, 31061, 31121, 31290, 32063.

Carex scirpoidea Michx.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at 1%; NB - present in 1 site at 3%; NA - present in 1 site at 30%, in 2 sites at 5%, in 1 site at 3%, in 2 sites at 2%, and in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 5%, in 3

sites at 4%, in 3 sites at 2%, and in 2 sites at 1%.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29183, 29705, 29811, 29970, 30010, 30046,
30281, 30329, 30472. NORTHWEST TERRITORIES - 30571, 30696, 30899,
31062, 31122, 31252, 32064, 32228, 32269, 32389.

Carex spectabilis Dew.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: YUKON - 29671.

Carex stylosa C.A.Mey.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;
GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at 7%; GAS -
present in 1 site at 20%, in 1 site at 15%, and in 1 site at 5%.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30745, 31396, 31525, 31573,
32115.

Carex cf. supina Willd. ssp. spaniocarpa (Steud.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 6%.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30744.

Carex vaginata Tausch.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at 1%, and in 1 site at +; GAC - present in 1 site at 30%, in 1 site at 7%, in 2 sites at 2%, in 1 site at 1%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30644, 30746, 30853, 31886, 32065, 32116, 32172, 32310, 32430.

Castilleja caudata (Pennell) Rebr.

Synonymy: C. pallida ssp. pallida var. caudata (Pennell) B.Boivin

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 32311.

Castilleja hyperborea Pennell

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29185, 30011, 30047. NORTHWEST TERRITORIES - 31124.

Cerastium beeringianum Cham. & Schlecht. var. beeringianum

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - common.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: NAC - present in 3 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29252. NORTHWEST TERRITORIES - 30942, 31012, 31211.

Chrysanthemum integrifolium Richards.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%, and in 7 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29008, 29707, 29762, 29813, 29931, 29971, 30012, 30048, 30473. NORTHWEST TERRITORIES - 31063, 31125, 31253.

Corallorhiza trifida Châtelain

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28928. NORTHWEST TERRITORIES - 32312.

Cornus canadensis L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31677, 31816, 31887, 31937.

Cyperaceae/Gramneae

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Voucher specimen: YUKON - not collected.

Cypripedium passerinum Richards.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31888, 32313.

Cystopteris fragilis (L.) Bernh.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29253, 29708, 29763.

Draba sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 2 sites at +.

Voucher specimens: YUKON - 30049. NORTHWEST TERRITORIES - 31291, 31628.

Draba fladnizensis Wulf.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968.

General distribution: Incompletely Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30973.

Draba incerta Payson.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Alpine.

Voucher specimen: YUKON - 29895.

Draba macrocarpa Adams

Synonymy: D. bellii Holm, D. corymbosa R.Br. ex DC. (= D. bellii) according to G.A. Mulligen.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent;
 NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
 GAS - absent; NAC - occasional.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES:
 NAC - present in 2 sites at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29709. NORTHWEST TERRITORIES - 30943, 31013.

Draba nivalis Liljeb1.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
 common. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
 rare; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 11 sites at +.
 NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29009, 29034, 29069, 29131, 29219, 29254,
 29307, 29370, 29432, 29764, 30474. NORTHWEST TERRITORIES - 31322.

Drosera anglica Huds.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
 absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29673.

Drosera rotundifolia L.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29674.

Elymus innovatus Beal.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 3 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Western Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30475. NORTHWEST TERRITORIES - 30778, 31065, 31292, 32174, 32271.

Epilobium angustifolium L. ssp. angustifolium

Synonymy: Chamaenerion angustifolium (L.) Scop.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31755.

Epilobium latifolium L.

Synonymy: Chamaenerion latifolium (L.) Sweet

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30528.

Equisetum arvense L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC -
present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: Circumpolar, Arctic-Temperate Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30854, 32118, 32314, 32390.

Equisetum scirpoides Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - common; GAC - occasional;

GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 4%, in 2 sites at 2%, and in 1 site at +; GAC - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30747, 32175.

Equisetum silvaticum L.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at 1%, and in 3 sites at +; NB - present in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29523, 29591, 29635, 30088, 30219. NORTHWEST TERRITORIES - 32431.

Erigeron hyssopifolius Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: American, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31126, 32176.

Eriophorum sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Voucher specimen: YUKON - not collected.

Eriophorum angustifolium ssp. subarcticum (Vassiljev.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 20%.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 32119.

Eriophorum angustifolium ssp. triste (T.Fries.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 5%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30574, 30647, 30855, 32315.

Eriophorum brachyantherum Trautv. & Mey.

Synonymy: E. opacum (Björnstr.) Fern.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 10%, in 1 site at 1%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30748, 32067, 32177, 32316.

Eriophorum russeolum var. albidum Nyl

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29675.

Eriophorum vaginatum L. ssp. vaginatum

Relative abundance: YUKON: GB - rare; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 1 site at 25%, and in 1 site at 3%. NORTHWEST TERRITORIES: GB - present in 1 site at 2%; GAS - present in 1 site at 37%, and in 1 site at 3%.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29490, 30132, 30220. NORTHWEST TERRITORIES -
31398, 31526, 32361.

Festuca altaica Trin.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA -
occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 1 site at
2%, and in 1 site at +. NORTHWEST TERRITORIES: GAC - present in
1 site at 1%.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 30283, 30330, 30379. NORTHWEST TERRITORIES -
31127.

Festuca baffinensis Polonin

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 29255.

Festuca brachyphylla Schult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31324.

Fragaria virginiana ssp. glauca (S.Wats.) Staudt.

Synonymy: F. glauca (S.Wats.) Rydb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Cody 1960, Ritchie 1956.

General distribution: American, Western Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31678.

Galium boreale L.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site. NORTHWEST TERRITORIES: GB - present in 3 sites at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 30529. NORTHWEST TERRITORIES - 31679, 31756.

Geocaulon lividum (Richards.) Fern.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 6%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31680, 32391.

Geum glaciale Adams

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29309, 29434.

Grass

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES - not collected.

Hedysarum alpinum ssp. americanum (Michx.) Fedtsch.

Synonymy: H. alpinum var. americanum Michx.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 2 sites at +; GAC - present in 4 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: American, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30476. NORTHWEST TERRITORIES - 30900, 31128, 31889, 32068, 32178, 32272.

Hedysarum mackenzii Richards.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at 1%, and in 5 sites at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30050. NORTHWEST TERRITORIES - 30575, 30648, 30779, 30901, 31066, 32007, 32229.

Hierochloe alpina (Sw.) Roem. & Schult.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - abundant; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present

in 1 site at +; GAS - present in 2 sites at 2%, in 2 sites at 1%,
and in 3 sites at +.

Literature reports: Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30380, 30422, 30477. NORTHWEST TERRITORIES -
30780, 31325, 31399, 31443, 31491, 31527, 31575, 31629.

Juncus drummondii E.Mey.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31254.

Juncus triglumis ssp. albescens (Lange) Hult.

Synonymy: J. albescens (Lange) Fern.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional;
GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31255, 32069.

Kobresia myosuroides (Vill.) Fiori & Paol.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30697.

Lesquerella calderi Mulligan & Porsild

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 3 sites at +.

Literature reports: Mulligan and Porsild 1969.

General distribution: American, Alpine.

Voucher specimens: YUKON - 29711, 29850, 30014, 30051, 30478. NORTHWEST TERRITORIES - 30902, 31067, 32230.

Linnaea borealis ssp. americana (Forbes) Hult.

Synonymy: L. borealis var. americana (Forbes) Rehd.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 5%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES -
31681, 31757.

Lloydia serotina (L.) Rchb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare;
GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES:
GAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Western Arctic Alpine.

Voucher specimens: YUKON - 29973. NORTHWEST TERRITORIES - 32273.

Lupinus arcticus S.Wats.

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional;
NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare;
GAS - occasional; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at 2%,
and in 1 site at +; NA - present in 1 site at 2%, in 1 site at 1%,
and in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 1
site at 1%; GAS - present in 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: American, Western Arctic Alpine.

Voucher specimens: YUKON - 29310, 29435, 30331. NORTHWEST TERRITORIES -
31256, 31326.

Luzula sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Luzula tundricola Gorodk.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 2 sites at 1%, and in 1 site at +.

Literature reports: Not reported in any of the selected sources.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31400, 31492, 31577.

Lycopodium annotinum ssp. pungens(La Pyl.) Hult.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 28929.

Lycopodium selago L. ssp. selago

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - rare.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 4 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30285. NORTHWEST TERRITORIES - 31178, 31401, 31444, 31493, 31578.

Melandrium apetalum ssp. arcticum (E.Fries) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - occasional.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: NAC - present in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29011, 29256. NORTHWEST TERRITORIES - 30945, 31015.

Melandrium macrospermum Pors.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: American, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31213.

Melandrium taimyrense Tolm.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 30530.

Menyanthes trifoliata L.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29676.

Mertensia paniculata (Ait.) G. Don var. paniculata

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Boreal Montane.

Voucher specimen: YUKON - 30332.

Minuartia sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Voucher specimen: YUKON - not collected.

Minuartia arctica (Stev.) Aschers & Graebn.

Synonymy: Arenaria arctica Stev.

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 2 sites at +; NA - present in 12 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29072, 29257, 29311, 29436, 29712, 29851, 29932, 29974, 30052, 30286, 30333, 30381, 30423, 30479.

Minuartia rossii (R.Br.) Graebn.

Synonymy: Arenaria rossii R.Br.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29073, 30480. NORTHWEST TERRITORIES - 30576, 30698, 31214.

Minuartia rubella (Wahlenb.) Graebn.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 295258. NORTHWEST TERRITORIES - 31327.

Mitella nuda L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31938, 32121.

Mitella pentandra Hook.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31890.

Nuphar polysepalum Engelm.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: This species was not found in any of the sites; however, material was obtained on June 30, 1972, at the following location: YUKON: Chappie Lake, glaciated area; aspect - 65°47'N, 134°56'W; elevation - 1000 ft.; habitat - 4 feet of water in bay.

Literature reports: Hultén 1968.

General distribution: American, Western Boreal Montane.

Voucher specimen: YUKON - 28996.

Oxytropis campestris ssp. gracilis (Nels.) Hult.

Synonymy: O. campestris var. varians (Rydb.) Barneby, O. hyperborea Pors.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at +; GAS - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30577, 30903, 31328.

Oxytropis campestris ssp. jordalii (Pors.) Hult.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%, and in 8 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 2%, in 1 site at 1%, and in 3 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29074, 29186, 29221, 29259, 29371, 29713, 29852, 30015, 30481. NORTHWEST TERRITORIES - 30781, 31068, 31131, 32008, 32180, 32231.

Oxytropis deflexa var. foliolosa (Hook.) Barneby.

Synonymy: O. deflexa var. sericea T. & G.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Cody 1960, Hultén 1968.

General distribution: American, Arctic Alpine.

Voucher specimen: YUKON - 30531.

Oxytropis maydelliana Trautv.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, and in 3 sites at +; NAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 30287, 30334, 30482. NORTHWEST TERRITORIES - 30649, 30699, 31179, 31257, 32274.

Oxytropis nigrescens ssp. bryophila (Greene) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - rare.

Cover: YUKON: NA - present in 1 site at 2%, in 3 sites at 1%, and in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present in 1 site at 1%.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29012, 29035, 29075, 29132, 29312, 29372, 29437, 29933. NORTHWEST TERRITORIES - 30578, 30700, 31180.

Papaver alboroseum Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - occasional.

Cover: NORTHWEST TERRITORIES: NAC - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30974, 31016.

Papaver lapponicum ssp. occidentale (Lundstr.) Knaben

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Arctic Alpine.

Voucher specimens: YUKON - 30335, 30382, 30483. NORTHWEST TERRITORIES - 31329.

Papaver walpolei Pors.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 3 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Alpine.

Voucher specimens: YUKON - 29714, 29946, 29976.

Parnassia kotzebuei Cham. & Schlecht.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amph-Beringian, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30856.

Parrya nudicaulis ssp. interior Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - occasional.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945 (ssp. not mentioned).

General distribution: American, Western Arctic Alpine.

Voucher specimens: YUKON - 30336. NORTHWEST TERRITORIES - 30946, 31069, 31215, 31258.

Parrya nudicaulis ssp. septentrionalis Hult.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NA - present in 12 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945 (ssp. not mentioned).

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29013, 29076, 29133, 29187, 29260, 29313, 29373, 29438, 29715, 29853, 29975, 30016, 30484. NORTHWEST TERRITORIES - 31132, 31181.

Pedicularis capitata Adams

Relative abundance: YUKON: GB - absent; GA - absent; NB - occasional;

NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare;

GAS - absent; NAC - rare.

Cover: YUKON: NB - present in 2 sites at +; NA - present in 11 sites

at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; NAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29134, 29222, 29314, 29374, 29716, 29766,

29854, 29977, 30017, 30288, 30337, 30383, 30424. NORTHWEST TERRITORIES - 31133, 31182.

Pedicularis kanei Durand ssp. kanei

Synonymy: P. lanata Cham. & Schlecht.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA -

common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - rare; NAC - occasional.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +;

NA - present in 17 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 13 sites at +; GAS - present in 1 site at +; NAC - present in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29014, 29036, 29135, 29188, 29315, 29439,

29717, 29855, 29897, 29934, 29978, 30018. NORTHWEST TERRITORIES - 30650, 31070, 31216.

Pedicularis labradorica Wirsing

Relative abundance: YUKON: GB - rare; GA - absent; NB - occasional;
 NA - rare. NORTHWEST TERRITORIES: GB - common; GAC - occasional;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; NB - present in 2 sites at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +; GAC - present in 1 site at 1%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29677, 30289, 30338, 30425. NORTHWEST TERRITORIES - 30651, 31891, 32122, 32181, 32392, 32432.

Pedicularis sudetica ssp. interior Hult.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: American, Arctic Alpine.

Voucher specimens: YUKON - 30053, 30485. NORTHWEST TERRITORIES - 31071, 31259.

Petasites frigidus (L.) Franch.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Western Arctic-Boreal Alpine-Montane.

Voucher specimen: YUKON - 29637.

Petasites hyperboreus Rydb.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 3 sites at +; NB - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic-Boreal, Alpine-Montane.

Voucher specimens: YUKON - 29525, 29594, 30090, 30221.

Petasites palmatus (Ait.) Gray

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Amphi-Beringian, Boreal Montane.

Voucher specimens: YUKON - 28930. NORTHWEST TERRITORIES - 32433.

Phlox sibirica L.

Relative abundance: YUKON: GB - rare; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; GA - present in 1 site at +; NA - present in 5 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Alpine.

Voucher specimens: YUKON - 29718, 29856, 29979, 30019, 30054, 30486.

Pinguicula vulgaris L. ssp. vulgaris

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 7 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES - 30857, 31260, 31892, 32009, 32071, 32232, 32275, 32317.

Platanthera obtusata (Pursh) Lindl.

Synonymy: Habenaria obtusata (Pursh) Richards.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 3 sites at +; GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31893, 31939, 32183, 32318.

Poa abbreviata R.Br.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30947.

Poa glauca M.Vahl.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%; GAS - present in 1 site at 1%, and in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30426. NORTHWEST TERRITORIES - 30813, 31330, 31630.

Polemonium boreale Adams ssp. boreale

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Western Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31331.

Polygonum viviparum L.

Synonymy: Bistorta viviparum (L.) F.Gray

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - occasional.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site at +; NAC - present in 2 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30384. NORTHWEST TERRITORIES - 30948, 31134, 31579.

Potentilla biflora Willd.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - rare.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 1%; GAS - present in 1 site at +; NAC - present in 1 site at 1%.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31183, 31261, 31631.

Potentilla elegans Cham. & Schlecht.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31494.

Potentilla hyparctica Malte

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - common; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%, and in 3 sites at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 31332, 31495, 31528, 31580.

Potentilla uniflora Ledeb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - rare.

Cover: YUKON: NA - present in 9 sites at +. NORTHWEST TERRITORIES:
 GAC - present in 1 site at +; GAS - present in 1 site at +; NAC -
 present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29015, 29077, 29189, 29261, 29316, 29375,
 29440. NORTHWEST TERRITORIES - 30580, 30949, 31333.

Pyrola asarifolia var. purpurea (Bunge) Fern.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional;
 GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 3 sites at +; GAC -
 present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31894, 31941, 32072, 32182,
 32319.

Pyrola grandiflora Radius

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA -
 absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
 GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 3%. NORTHWEST TERRITORIES:
 GB - present in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
 Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 28932. NORTHWEST TERRITORIES - 31895, 31940.

Pyrola minor L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +; GAS - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30652, 31581.

Pyrola secunda ssp. obtusata (Turcz.) Hult.

Synonymy: P. secunda var. obtusata Turcz.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28931, 29595.

Pyrola secunda L. ssp. secunda

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 5 sites at +; GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31682, 31896, 31942, 32123.

Ranunculus sp.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Rubus arcticus ssp. acaulis (Michx.) Focke

Synonymy: R. acaulis Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30749.

Rubus chamaemorus L.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - rare; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at 20%, in 1 site at 3%, in 1 site at 2%, in 3 sites at 1%, and in 1 site at +; NB - present in 2 sites at 2%, and in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at 10%, in 2 sites at 5%, and in 1 site at 1%; GAC - present in 1 site at 1%; GAS - present in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29493, 29527, 29639, 30135, 30184. NORTHWEST TERRITORIES - 31402, 32125, 32350.

Rumex arcticus Trautv.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30750, 32184.

Saussurea angustifolia (Willd.) DC.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 30293, 30341, 30488. NORTHWEST TERRITORIES - 31218.

Saussurea viscida var. yukonenis (Pors.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Western Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31018.

Saxifraga bronchialis ssp. funstonii (Small) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: GAC - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29982, 30386. NORTHWEST TERRITORIES - 30583, 31136.

Saxifraga caespitosa L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - rare.

Cover: NORTHWEST TERRITORIES: NAC - present in 1 site at +.

Literature reports: Hultén 1968, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 30975.

Saxifraga hieracifolia Waldst. & Kit.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimen: YUKON - 30294.

Saxifraga oppositifolia L.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at 1%, and in 16 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 3 sites at 1%, and in 10 sites at +; NAC - present in 1 site at 2%, and in 2 sites at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29038, 29262, 29263, 29318, 29719, 29815, 29936. NORTHWEST TERRITORIES - not collected.

Saxifraga reflexa Hook.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 2 sites at +.

Literature reports: Hultén 1968.

General distribution; American, Western Arctic Alpine.

Voucher specimens: YUKON - 29377, 30295.

Saxifraga tricuspidata Rottb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29079, 29139, 29378, 30296, 30428. NORTHWEST TERRITORIES - 30814, 31334, 31635.

Selaginella selaginoides (L.) Link.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31137.

Senecio atropurpureus ssp. frigidus (Richards.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 2 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic - Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30754, 32076, 32186, 32324.

Senecio conterminus Greenm.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Alpine.

Voucher specimen: YUKON - 30297.

Senecio lugens Richards.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - common; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 3 sites at +; GAS - present in 4 sites at +.

Literature reports: Hultén 1968.

General distribution: American, Western Arctic-Boreal Alpine-Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30755, 31138, 31406, 31335, 31496, 31531, 32077, 32187, 32325.

Senecio resedifolius Less.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NA - present in 7 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 8 sites at +; NAC - present in 4 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29017, 29080, 29225, 29379, 29858, 29981, 30298, 30489. NORTHWEST TERRITORIES - 30584, 30703, 30784, 30951, 31019, 31075, 31184, 31219, 31264, 32011, 32078, 32277.

Silene acaulis L. ssp. acaulis

Synonymy: S. acaulis var. exscapa (All.) DC.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - occasional; NAC - common.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at 1%; NA - present in 2 sites at 2%, in 3 sites at 1%, and in 12 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 3 sites at 1%, and in 7 sites at +; GAS - present in 1 site at 1%, and in 2 sites at +; NAC - present in 1 site at 1%, and in 3 sites at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Incompletely Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29081, 29720. NORTHWEST TERRITORIES - not collected.

Smelowskia borealis (Greene) Drury & RollinsSynonymy: Melanidion boreale Greene

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - occasional.

Cover: YUKON: NA - present in 2 sites at +. NORTHWEST TERRITORIES: NAC - present in 3 sites at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: American, Western Arctic Alpine.

Voucher specimens: YUKON - 29264. NORTHWEST TERRITORIES - 30952, 30976, 31220.

Smelowskia calycina (Steph.) C.A.Mey. ssp. calycina

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31336.

Solidago multiradiata Ait. var. multiradiata

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31139.

Stellaria edwardsii R.Br.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: NB - present in 1 site at +; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 3 sites at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29380, 30387, 30429. NORTHWEST TERRITORIES - 30655, 30756, 31407, 31585, 31636, 32188.

Taraxacum alaskanum Rydb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31337.

Thalictrum alpinum L.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 7 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 12 sites at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29191, 29226, 29319, 29381, 29444, 29859, 30057, 30490. NORTHWEST TERRITORIES - 30585, 30656, 30704, 30785, 30861, 30905, 31076, 31140, 31265, 32189, 32233, 32278, 32326.

Tofieldia coccinea Richards.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 1%, and in 7 sites at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29320, 30491. NORTHWEST TERRITORIES - 30586, 30705, 30786, 30906, 31266, 32012, 32079, 32234.

Tofieldia pusilla (Michx.) Pers.

Synonymy: Tofieldia palustris Auct.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - absent; NAC - rare.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 3 sites at +; GAC - present in 1 site at 1%, and in 12 sites at +; NAC - present in 1 site at 1%.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 30299, 30342, 30492. NORTHWEST TERRITORIES - 30587, 30657, 30706, 30862, 30907, 31077, 31141, 31185, 31267, 31897, 32013, 32080, 32129, 32190, 32279, 32327, 32395.

Valeriana capitata Pall.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: YUKON - 30532.

Woodsia glabella R.Br.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NA - present in 3 sites at +.

NORTHWEST TERRITORIES: GAC - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29082, 29228, 30059, 30494. NORTHWEST TERRITORIES - 30589.

Zygadenus elegans Pursh.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES:

GB - present in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: American, Boreal-Temperate Montane.

Voucher specimens: YUKON - 30344. NORTHWEST TERRITORIES - 32192.

Shrubs and Trees

Forty seven taxa of shrubs and trees were encountered during the study: YUKON - 20 at GB, 12 at GA, 24 at NB, and 21 at NA; NORTHWEST TERRITORIES - 31 at GB, 25 at GAC, 18 at GAS, and 7 at NAC.

The "Literature Reports" section indicated the occurrence of the taxa in each of the following areas: vicinity of Norman Wells (Cody 1960); along the Canol Road on the East Slope of the Mackenzie Mountains (Porsild 1945); Mackenzie River Area (Bird 1972); Alaska and neighbouring Territories (Hultén 1968), and the Churchill Area, Manitoba (Ritchie 1956).

The "General Distribution" of each taxon was determined from all of the above sources but especially from Hultén (1968).

Nomenclature is that of Hultén (1968).

Alnus crispa (Ait.) Pursh ssp. crispa

Relative abundance: YUKON: GB - occasional; GA - present; NB - rare;

NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent;

GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 40%, and in 1 site at 2%; GA - present in 1 site at +; NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 15%, in 3 sites at 10%, in 1 site at 8%, in 1 site at 6%, and in 1 site at 5%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968.

General distribution: Amphi-Beringian, Boreal Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES -
31674, 31754, 31934, 32385.

Alnus incana ssp. tenuifolia (Nutt.) Breitung

Synonymy: A. tenuifolia Nutt.

Relative abundance: YUKON: GB - absent; GA - present; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS -
absent; NAC - absent.

Cover: YUKON: GA - present in 1 site. NORTHWEST TERRITORIES: GB -
present in 1 site at 10%.

Literature reports: Cody 1960, Hultén 1968.

General distribution: American, Western Boreal Montane.

Voucher specimens: YUKON - 30525. NORTHWEST TERRITORIES - 31935.

Andromeda polifolia L.

Relative abundance: YUKON: GB - occasional; GA - present; NB - rare;
NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC -
common; GAS - rare; NAC - rare.

Cover: YUKON: GB - present in 1 site at 1%, and in 1 site at +; GA -
present in 1 site at +; NB - present in 1 site at 1%; NA - present
in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site
at 10%, in 1 site at 5%, in 1 site at 3%, in 1 site at 1%, and in
1 site at +; GAC - present in 2 sites at 1%, and in 6 sites at +;
GAS - present in 1 site at 1%; NAC - present in 1 site at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29302, 29366, 29489, 29634, 30181.

NORTHWEST TERRITORIES - 30563, 30636, 31055, 31113, 31175, 31394,
32058, 32112, 32164, 32349, 32359, 32386.

Arctostaphylos rubra (Rehd. & Wils.) Fern.

Synonymy: Arctous rubra (Rehd. & Wils.) Nakai

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional;
NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC -
abundant; GAS - rare; NAC - rare.

Cover: YUKON: GA - present in 1 site at 1%; NB - present in 1 site at
5%, and in 1 site at 3%; NA - present in 2 sites at 2%, and in 1
site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 10%,
in 2 sites at 5%, and in 1 site at 1%; GAC - present in 2 sites at
10%, in 4 sites at 5%, in 1 site at 4%, in 3 sites at 3%, in 2 sites
at 1%, and in 3 sites at +; GAS - present in 1 site at 5%; NAC -
present in 1 site at 2%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29180, 30275. NORTHWEST TERRITORIES - 31884.

Arctostaphylos uva-ursi (L.) Spreng. var. uva-ursi

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional;
GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 10%, and in
1 site at 1%; GAC - present in 1 site at 3%, and in 1 site at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 30896, 31117, 31676.

Betula glandulosa Michx.

Relative abundance: YUKON: GB - rare; GA - present; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 5%; GA - present in 1 site at 1%; NB - present in 1 site at 20%, in 1 site at 4%, and in 1 site at 3%; NA - present in 1 site at 20%, and in 3 sites at 3%. NORTHWEST TERRITORIES: GB - present in 1 site at 2%; GAC - present in 1 site at 13%, in 1 site at 5%, in 1 site at 3%, in 1 site at 2%, and in 3 sites at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30087, 30218, 30278, 30419, 30468. NORTHWEST TERRITORIES - 30640, 30776, 32060, 32114, 32225, 32267, 32308, 32387.

Betula nana ssp. exilis (Sukatsch.) Hult.

Relative abundance: YUKON: GB - common; GA - absent; NB - rare; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 2 sites at 2%, in 2 sites at 1%, and in 1 site at +; NB - present in 1 site at 5%; NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 4%, and in 1 site at 2%; GAC - present in 1 site at 5%, in 1 site at 1%, and in

1 site at +; GAS - present in 1 site at 2%, and in 1 site at 1%.

Literature reports: Bird 1972, Hultén 1968.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29181, 29521, 30326. NORTHWEST TERRITORIES -
30567, 31059, 31571, 31625, 32169, 32360.

Betula papyrifera ssp. humilis (Regel) Hult.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent;
NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 5%, and in 1 site at 1%.

NORTHWEST TERRITORIES: GB - present in 1 site at 15%, and in 3
sites at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES -
31885, 32388, 32429.

Cassiope tetragona (L.) D. Don.

Synonymy: including C. tetragona ssp. saximontana.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA -
common. NORTHWEST TERRITORIES: GB - rare; GAC - common; GAS -
occasional; NAC - occasional.

Cover: YUKON: GA - present in 1 site at 1%; NB - present in 1 site at
15%; NA - present in 1 site at 10%, in 1 site at 7%, in 1 site at
5%, in 3 sites at 3%, in 2 sites at 2%, in 2 sites at 1%, and in
5 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at

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3%; GAC - present in 1 site at 7%, in 1 site at 6%, in 1 site at 5%, in 1 site at 3%, in 2 sites at 2%, in 2 sites at 1%, and in 3 sites at +; GAS - present in 1 site at 5%, and in 2 sites at +; NAC - present in 1 site at 20%, and in 1 site at 3%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29033, 29184, 29218, 29306, 29369, 29431, 29706, 29812, 29849, 29894, 29930. NORTHWEST TERRITORIES - 30572, 30645, 31011, 31123, 31177, 31397, 31490, 32173.

Chamaedaphne calyculata (L.) Moench.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimen: YUKON - 29672.

Cornus stolonifera Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 1%.

Literature reports: Cody 1960, Hultén 1968.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Dryas sp.

Relative abundance: YUKON: GB - absent; GA - present; NB - occasional; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GA - present in 1 site at 6%; NB - present in 1 site at 5%, and in 1 site at 3%; NA - present in 2 sites at 10%, in 1 site at 8%, in 1 site at 5%, in 1 site at 4%, in 1 site at 3%, in 2 sites at 2%, in 1 site at 1%, and in 1 site at +. NORTHWEST TERRITORIES: GAS - present in 1 site at 1%.

Voucher specimen: not collected.

Dryas integrifolia M.Vahl ssp. integrifolia

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - abundant; GAS - rare; NAC - common.

Cover: YUKON: NA - present in 2 sites at 5%, and in 1 site at 2%. NORTHWEST TERRITORIES: GB - present in 1 site at 2%; GAC - present in 3 sites at 20%, in 1 site at 1%, in 1 site at 13%, in 2 sites at 10%, in 1 site at 6%, in 1 site at 4%, in 3 sites at 3%, in 1 site at 2%, in 1 site at 1%, and in 1 site at +; GAS - present in 1 site at 1%; NAC - present in 1 site at 30%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Bird 1972, Cody 1960 as D. crenulata Juz., Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Arctic Alpine.

Voucher specimens: YUKON - 29010, 29220, 29765. NORTHWEST TERRITORIES - 30573, 30646, 30944, 31014, 31064, 31212, 31323, 32066, 32117, 32270.

Dryas octopetala ssp. alaskensis (Pors.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at 10%, in 1 site at 4%, in 2 sites at 3%, in 2 sites at 2%, and in 2 sites at 1%.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: American, Alpine.

Voucher specimen: YUKON - 29308, 29433, 29710, 29814, 29896, 29972, 30013, 30282.

Dryas octopetala L. var. octopetala

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: NA - present in 1 site at 10%. NORTHWEST TERRITORIES: GAS - present in 1 site at 5%.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: YUKON - 29071. NORTHWEST TERRITORIES - 31574.

Empetrum nigrum ssp. hermaphroditum (Lange) Böcher

Synonymy: E. hermaphroditum (Lange) Hagerup

Relative abundance: YUKON: GB - occasional; GA - present; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 3 sites at 1%; GA - present in 1 site at 1%; NB - present in 1 site at 3%, in 2 sites at 1%, and in 1 site at +;

NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 1 site at +; GAC - present in 1 site at 1%, and in 1 site at +; GAS - present in 3 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29522, 29592. NORTHWEST TERRITORIES - not collected.

Juniperus communis ssp. nana (Willd.) Syme

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945; Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - not collected. NORTHWEST TERRITORIES - 31129.

Larix laricina (Du Roi) K.Koch

Relative abundance: YUKON: GB - occasional; GA - absent; NB - common; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at 1%; NB - present in 1 site at 5%, in 1 site at 2%, and in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 3%, in 1 site at 2%, and in 1 site at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: not collected.

Ledum palustre ssp. decumbens (Ait.) Hult.

Synonymy: L. decumbens (Ait.) Small, L. palustre var. decumbens Ait.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - occasional; GAC - absent; GAS - rare; NAC - absent.

Cover: YUKON: GB - present in 1 site at 10%, in 1 site at 6%, in 2 sites at 5%, in 1 site at 3%, and in 2 sites at 2%; NB - present in 1 site at 18%, in 1 site at 14%, in 1 site at 5%, and in 1 site at 3%; NA - present in 2 sites at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at 15%, in 1 site at 10%, and in 1 site at 3%; GAS - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29492, 29524, 30133, 30182, 30284. NORTHWEST TERRITORIES - 31576.

Ledum palustre ssp. groenlandicum (Oeder) Hult.

Synonymy: L. groenlandicum Oeder.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 4%, in 1 site at 3%, in 2 sites at 2%, and in 2 sites at 1%; NB - present in 1 site at 4%, and in 1 site at 1%. NORTHWEST TERRITORIES: GB - present in 1 site at 20%,

in 1 site at 10%, in 1 site at 4%, and in 2 sites at +; GAC - present
in 1 site at 2%, in 1 site at 1%, and in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 29491, 29593, 30089. NORTHWEST TERRITORIES -
31130, 32120, 32179.

Oxycoccus microcarpus Turcz.

Synonymy: Vaccinium oxycoccus var. microcarpus (Turcz.) Fedtsch. & Flerov.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - occasional;
NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at 1%,
and in 1 site at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29636, 30134, 30183.

Picea glauca (Moench) Voss

Relative abundance: YUKON: GB - rare; GA - present; NB - occasional;
NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - common;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 28%; GA - present in 1 site at +;
NB - present in 2 sites at 5%. NORTHWEST TERRITORIES: GB - present
in 1 site at 22%, in 1 site at 8%, in 1 site at 2%, and in 2 sites
at 1%; GAC - present in 2 sites at 2%, in 3 sites at 1%, and in 4
sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: not collected.

Picea mariana (Mill.) B.S.P.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common;
NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 50%, in 1 site at 30%, in 1
site at 20%, in 2 sites at 15%, and in 1 site at 10%; NB - present
in 1 site at 17%, in 1 site at 16%, and in 1 site at 12%. NORTHWEST
TERRITORIES: GB - present in 1 site at 19%, in 1 site at 17%, and
in 1 site at 16%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,
Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: not collected.

Pinus divaricata (Ait.) Dumont

Synonymy: P. banksiana Lamb.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - occasional; GAC - absent;
GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 23%, in 1 site
at 1%, and in 1 site at +.

Literature reports: Hultén 1968.

General distribution: American, Boreal.

Voucher specimen: not collected.

Populus balsamifera L. ssp. balsamifera

Synonymy: P. tacamahacca Mill.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 4%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Populus tremuloides Michx.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 1 site at 62%, in 1 site at 57%, in 1 site at 30%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - not collected.

Potentilla fruticosa L.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - occasional; GAC - common; GAS - rare; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 1%, and in 2 sites at +; GAC - present in 1 site at 2%, in 6 sites at 1%, and in 6 sites at +; GAS - present in 1 site at 1%.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945,

General distribution: Incompletely Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 30339. NORTHWEST TERRITORIES - 30579, 31072, 32070.

Rhododendron lapponicum (L.) Wahlenb.

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - rare; GAC - abundant; GAS - absent; NAC - absent.

Cover: YUKON: GA - present in 1 site at +; NB - present in 1 site at +; NA - present in 4 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at +; GAC - present in 1 site at 4%, in 1 site at 3%, in 3 sites at 2%, in 7 sites at 1%, and in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Incompletely Circumpolar, Arctic-Boreal Alpine-Montane.

Voucher specimens: YUKON - 29190, 29441, 30055, 30290. NORTHWEST TERRITORIES - 30581, 31073, 32124.

Rosa acicularis Lindl.

Synonymy: R. bourgeauiana Crépin

Relative abundance: YUKON: GB - common; GA - absent; NB - occasional; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 1%, and in 4 sites at +; NB - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 1 site at 5%, in 3 sites at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28933, 29526, 29596, 29638. NORTHWEST TERRITORIES - 31683.

Salix sp.

Relative abundance: YUKON: GB - rare; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - rare; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 2%. NORTHWEST TERRITORIES: GB - present in 1 site at 1%.

Voucher specimens: not collected.

Salix alaxensis (Anderss.) Cov. ssp. alaxensis

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, in 1 site at 1%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30858, 32320.

Salix arbusculoides Anderss.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 3%, and in 1 site at 1%; GAS - present in 1 site at 2%.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Western Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31632, 32073, 32126.

Salix arctica Pall. ssp. arctica

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 2 sites at 1%.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Arctic Alpine.

Voucher specimens: NORTHWEST TERRITORIES - 30859, 31262.

Salix glauca L. ssp. acutifolia (Hook.) Hult.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at 3%, in 1 site at 1%, and in 1 site at +; NB - present in 1 site at 2%; NA - present in 2 sites at +. NORTHWEST TERRITORIES: GB - present in 4 sites at 2%, and in 1 site

at 1%; GAC - present in 1 site at 1%, and in 2 sites at +; GAS - present in 2 sites at 3%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Amphi-Beringian, Western Boreal Montane.

Voucher specimens: YUKON - 29223, 29597, 30091, 30291, 30427. NORTHWEST TERRITORIES - 30782, 31403, 31582, 31633, 31684, 31758, 31943, 32010, 32074, 32393, 32434.

Salix myrtilifolia Anders.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - occasional; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 3%, and in 1 site at 2%; GAC - present in 1 site at 4%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 30056. NORTHWEST TERRITORIES - 30751, 32185, 32321, 32394.

Salix niphoclada Rydb. var. muriei (Hook.) Hult.

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - absent; NAC - absent.

Cover: YUKON: NB - present in 1 site at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 4%, in 1 site at 3%, and in 1 site at +.

Literature reports: not reported in any of the selected sources.

General distribution: American, Western Boreal Montane.

Voucher specimens: YUKON - 30222. NORTHWEST TERRITORIES - 30752, 32127, 32322.

Salix phlebophylla Anderss.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at 10%.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: YUKON - 30385.

Salix phylicifolia L. ssp. planifolia (Pursh) Hiltonen

Synonymy: S. planifolia Pursh

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - occasional; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 3%, and in 1 site at +.

Literature reports: Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimens: NORTHWEST TERRITORIES - 31529, 31583.

Salix polaris ssp. pseudopolaris (Flod.) Hult.

Synonymy: S. pseudopolaris Flod.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - rare. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: NA - present in 1 site at +.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: YUKON - 29136.

Salix pulchra Cham.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - rare; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAS - present in 1 site at 1%.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimen: NORTHWEST TERRITORIES - 31404.

Salix reticulata L. ssp. reticulata

Relative abundance: YUKON: GB - absent; GA - present; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - common; GAS - common; NAC - rare.

Cover: YUKON: GA - present in 1 site at 1%; NB - present in 1 site at 1%; NA - present in 1 site at 3%, in 2 sites at 1%, and in 6 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 4%, in 3 sites at 3%, in 3 sites at 2%, in 5 sites at 1%, and in 2 sites at +; GAS - present in 1 site at 5%, in 1 site at 2%, in 1 site at 1%, and in 1 site at +; NAC - present in 1 site at 2%.

Literature reports: Bird 1972, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29037, 29137, 29224, 29317, 29442, 29857, 29980, 30020, 30292, 30340, 30487. NORTHWEST TERRITORIES - 30582,

30653, 30701, 30753, 30783, 30860, 30904, 31074, 31135, 31263, 31405,
31530, 31584, 31634, 32075, 32128, 32276, 32323.

Salix rotundifolia Trautv.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
common. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
absent; NAC - common.

Cover: YUKON: NA - present in 1 site at 2%, in 2 sites at 1%, and in 4
sites at +. NORTHWEST TERRITORIES: GAC- present in 1 site at +;
NAC - present in 1 site at 3%, in 2 sites at 1%, and in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Amphi-Beringian, Western Arctic Alpine.

Voucher specimens: YUKON - 29016, 29078, 29138, 29376, 29443, 29898,
29935. NORTHWEST TERRITORIES - 30702, 30950, 31017, 31217.

Salix sitchensis Sanson.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - absent; GAC - rare; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GAC - present in 1 site at 1%.

Literature reports: Hultén 1968.

General distribution: American, Western Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 30654.

Shepherdia canadensis (L.) Nutt.

Relative abundance: YUKON: GB - absent; GA - absent; NB - absent; NA -
absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS -
absent; NAC - absent.

Cover: NORTHWEST TERRITORIES: GB - present in 2 sites at 1%, and in 3 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Ritchie 1956.

General distribution: American, Boreal Montane.

Voucher specimen: NORTHWEST TERRITORIES - 31685.

Spiraea beauverdiana Schneid.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - rare; NA - absent. NORTHWEST TERRITORIES: GB - absent; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 2 sites at +; NB - present in 1 site at +.

Literature reports: Hultén 1968, Porsild 1945.

General distribution: Amphi-Beringian, Western Boreal Montane.

Voucher specimens: YUKON - 29640, 30092, 30223.

Vaccinium uliginosum ssp. alpinum (Bigel.) Hult.

Synonymy: V. uliginosum var. alpinum Bigel.

Relative abundance: YUKON: GB - rare; GA - present; NB - rare; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - common; GAS - occasional; NAC - absent.

Cover: YUKON: GB - present in 1 site at +; GA - present in 1 site at +; NB - present in 1 site at 4%; NA - present in 1 site at 3%, and in 1 site at +. NORTHWEST TERRITORIES: GB - present in 1 site at 10%, in 2 sites at 3%, in 1 site at 2%, and in 1 site at 1%; GAC - present in 1 site at 2%, in 2 sites at 1%, and in 4 sites at +; GAS - present in 1 site at 2%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 29321, 29445, 29598, 30430, 30493. NORTHWEST TERRITORIES - 30588, 30707, 30787, 31142, 31338, 31445, 31637, 32081, 32130, 32191, 32280, 32351, 32362, 32396.

Vaccinium uliginosum ssp. microphyllum Lange

Relative abundance: YUKON: GB - absent; GA - absent; NB - rare; NA - common. NORTHWEST TERRITORIES: GB - absent; GAC - occasional; GAS - occasional; NAC - rare.

Cover: YUKON: NB - present in 1 site at 5%; NA - present in 1 site at 1%, and in 5 sites at +. NORTHWEST TERRITORIES: GAC - present in 1 site at 2%, and in 1 site at 1%; GAS - present in 2 sites at 5%, and in 1 site at +; NAC - present in 1 site at +.

Literature reports: Hultén 1968.

General distribution: Circumpolar, Arctic Alpine.

Voucher specimens: YUKON - 29192, 29227, 29382, 29816, 30058, 30343. NORTHWEST TERRITORIES - 30658, 31078, 31186, 31408, 31497, 31586.

Vaccinium vitis-idaea ssp. minus (Lodd.) Hult.

Synonymy: V. vitis-idaea var. minus Lodd.

Relative abundance: YUKON: GB - abundant; GA - absent; NB - common; NA - occasional. NORTHWEST TERRITORIES: GB - common; GAC - occasional; GAS - common; NAC - absent.

Cover: YUKON: GB - present in 1 site at 11%, in 1 site at 6%, in 1 site at 5%, in 1 site at 4%, in 1 site at 3%, in 1 site at 2%, and in 2 sites at 1%; NB - present in 2 sites at 4%, in 1 site at 3%, and in 1 site at 2%; NA - present in 1 site at 3%, and in 1 site at 2%.

NORTHWEST TERRITORIES: GB - present in 2 sites at 10%, in 1 site at 7%, in 2 sites at 5%, in 1 site at 3%, in 2 sites at 2%, and in 1 site at +; GAC - present in 1 site at 2%, and in 3 sites at +; GAS - present in 1 site at 5%, in 1 site at 2%, in 1 site at 1%, and in 2 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968, Porsild 1945, Ritchie 1956.

General distribution: Circumpolar, Boreal Montane.

Voucher specimens: YUKON - 28934, 29494, 29528, 29641, 29678, 30093, 30136, 30185, 30224, 30300, 30388. NORTHWEST TERRITORIES - 31409, 31587, 31817, 31898, 32131, 32352.

Viburnum edule (Michx.) Raf.

Relative abundance: YUKON: GB - occasional; GA - absent; NB - absent; NA - absent. NORTHWEST TERRITORIES: GB - common; GAC - absent; GAS - absent; NAC - absent.

Cover: YUKON: GB - present in 1 site at 3%, and in 1 site at +. NORTHWEST TERRITORIES: GB - present in 4 sites at +.

Literature reports: Bird 1972, Cody 1960, Hultén 1968.

General distribution: American, Boreal Montane.

Voucher specimens: YUKON - 28935, 30094. NORTHWEST TERRITORIES - 31686, 31759, 31899, 31944.

DISTRIBUTIONAL ELEMENTS

Table 4 shows that the 536 identified plant taxa belong to three major Northern Hemisphere Elements: Circumpolar - 72.4%, Amphi-Beringian - 13.3%, and American - 14.4%. Bird (1972) reported significantly different percents: Circumpolar - 85.4%, Amphi-Beringian - 7.4%, and American - 7.2%. The differences resulted because of the more westerly and southerly areas involved in the present study.

Table 4 shows the four leading distributional elements represented in the 536 taxa to be Circumpolar, Arctic-Boreal Alpine-Montane (31.5%); Circumpolar, Arctic Alpine (17.9%); Circumpolar, Boreal Montane (10.4%); and Circumpolar, Arctic-Temperate Alpine-Montane (8.0%). Clearly most of the species encountered are of widespread occurrence.

The data shows that 12.3% of the taxa found in the Yukon were American in contrast to 13.8% for the Wrigley area. The highest proportion of American taxa tended to be found below timberline in contrast to those above. In the Yukon most occurred in nonglaciaded areas in contrast to glaciaded ones as most of these data had Arctic Alpine affinities whereas in the Northwest Territories the reverse was true as most of the American taxa had Boreal affinities.

The data shows that 13.1% of the taxa found in the Yukon were Amphi-Beringian in contrast to 12.1% for the Wrigley area in the Northwest Territories. The highest proportion of Amphi-Beringian taxa were found in areas above timerline in contrast to those below, and in nonglaciaded areas in contrast to glaciaded ones.

Table 4 shows that the Circumpolar taxa were almost equally divided between the Yukon and the Northwest Territories, and between the alpine areas and those below timberline.

	YUKON				NORTHWEST TERRITORIES				TOTAL
	GB	GA	NB	NA	GB	GAC	GAS	NAC	
AMERICAN									
ARCTIC ALPINE		3	1	6	2	5	4	1	10
ARCTIC-BOREAL				1			1		1
ARCTIC-BOREAL ALPINE-MONTANE	1	2	2	5	2	6	1	2	6
ARCTIC-BOREAL MONTANE		1							1
WESTERN ARCTIC ALPINE		1	3	5		4	2	3	8
WESTERN ARCTIC-BOREAL ALPINE-MONTANE		1		1	2	2	1		3
ALPINE		1		4	1	2		1	6
BOREAL					1				1
BOREAL MONTANE	9	2	8	2	23	10	3		31
BOREAL-TEMPERATE MONTANE			1	1	1				2
WESTERN BOREAL MONTANE		1	1		2	3	1		6
MONTANE				1	1				2
AMPHI-BERINGIAN									
ARCTIC ALPINE	3	10	7	17	6	20	10	7	27
ARCTIC-BOREAL ALPINE-MONTANE	2	2	3	3	3	1	2	1	5
WESTERN ARCTIC ALPINE	1	4	5	14	2	11	6	6	23
WESTERN ARCTIC-BOREAL ALPINE				1					1
WESTERN ARCTIC-BOREAL ALPINE-MONTANE	1		1		1	1		2	2
ALPINE	1	1		2		3	2	2	7
BOREAL MONTANE	2	1	1		3				3
WESTERN BOREAL MONTANE	3		2	1	1	1	1		3
CIRCUMPOLAR									
ARCTIC ALPINE	4	31	15	60	13	54	48	30	96
ARCTIC-BOREAL	1		1	5	2	4	2	1	6
ARCTIC-BOREAL ALPINE-MONTANE	58	23	55	79	63	85	62	27	166
ARCTIC-TEMPERATE ALPINE-MONTANE	12	9	15	25	23	23	17	18	43
ARCTIC-SUBTROPICAL ALPINE-MONTANE	1								1
WESTERN ARCTIC ALPINE				1		1			2
WESTERN ARCTIC-BOREAL ALPINE-MONTANE	1			1				1	2
ALPINE							1	1	2
BOREAL	1		1		1				2
BOREAL MONTANE	25	5	9	13	34	16	9	5	56
BOREAL-TEMPERATE MONTANE	7		10	4	7	1	1		12
Totals	133	98	141	252	195	253	175	106	536

Table 4. Distribution Elements of all of the taxa.

	YUKON				NORTHWEST TERRITORIES					TOTAL
	GB	GA	NB	NA	GB	GAC	GAS	NAC		
AMERICAN										
ARCTIC ALPINE				2		1	2			3
ARCTIC-BOREAL				1			1			1
ARCTIC-BOREAL ALPINE-MONTANE				2		2		2		2
ARCTIC-BOREAL MONTANE		1								1
BOREAL MONTANE	3		2	1	6	2	2			10
AMPHI-BERINGIAN										
ARCTIC ALPINE	2	2	1	5	1	3	3	1		6
WESTERN ARCTIC ALPINE			1	2	1	2	1	1		2
WESTERN ARCTIC-BOREAL ALPINE				1						1
CIRCUMPOLAR										
ARCTIC ALPINE	3	17	6	34	5	27	31	15		50
ARCTIC-BOREAL	1			4	1	3	2	1		5
ARCTIC-BOREAL ALPINE-MONTANE	32	14	28	45	33	43	36	11		86
ARCTIC-TEMPERATE ALPINE-MONTANE	5	4	4	9	8	9	8	7		18
ALPINE								1		1
BOREAL	1		1		1					2
BOREAL MONTANE	12	2		7	20	5	4	4		28
BOREAL-TEMPERATE MONTANE	3		9	1	4					6
Totals	62	40	52	114	80	97	90	43		222

Table 5. Distribution Elements of the Lichen taxa.

	YUKON.			NORTHWEST TERRITORIES					TOTAL	
	GB	GA	NB	NA	GB	GAC	GAS	NAC		
AMERICAN										
ARCTIC ALPINE				1						1
BOREAL-TEMPERATE MONTANE				1						1
MONTANE				1						1
CIRCUMPOLAR										
ARCTIC ALPINE	1	1		5	1	3	2	2		10
ARCTIC-BOREAL			1	1	1	1				1
ARCTIC-BOREAL ALPINE-MONTANE	19	3	18	22	18	28	20	12		57
ARCTIC-TEMPERATE ALPINE-MONTANE	7	5	11	16	14	13	9	11		24
ARCTIC-SUBTROPICAL ALPINE-MONTANE	1									1
WESTERN ARCTIC-BOREAL ALPINE-MONTANE				1				1		1
BOREAL MONTANE	2		3	3	2	1	1			9
BOREAL-TEMPERATE MONTANE	4		1	3	3	1	1			6
Totals	34	9	34	54	39	47	33	26		112

Table 6. Distribution Elements of the Bryophyte taxa.

	YUKON				NORTHWEST TERRITORIES					TOTAL
	GB	GA	NB	NA	GB	GAC	GAS	NAC		
AMERICAN										
ARCTIC ALPINE		3	1	3	2	4	2	1	6	
ARCTIC-BOREAL ALPINE-MONTANE	1	2	2	3	2	4	1		4	
WESTERN ARCTIC ALPINE		2	3	5	4	4	2	3	8	
WESTERN ARCTIC-BOREAL ALPINE-MONTANE		1		1	2	2	1		3	
ALPINE		1		4	1	2		1	6	
BOREAL					1				1	
BOREAL MONTANE		3	7	1	19	8	1		21	
BOREAL-TEMPERATE MONTANE	8		1		1				1	
WESTERN BOREAL MONTANE		1	1		2	3	1		6	
MONTANE					1				1	
AMPHI-BERINGIAN										
ARCTIC ALPINE	3	6	6	12	5	17	6	7	21	
ARCTIC-BOREAL ALPINE-MONTANE	2	2	3	3	3	1	2	1	5	
WESTERN ARCTIC ALPINE	1	4	4	12	2	9	5	5	21	
WESTERN ARCTIC-BOREAL ALPINE-MONTANE	1		1		1	1			2	
ALPINE	1	1		2		3	2	2	7	
BOREAL MONTANE	2	1	1		3				3	
WESTERN BOREAL MONTANE	3		2	1	1	1			3	
CIRCUMPOLAR										
ARCTIC ALPINE		13	9	21	7	24	15	13	36	
ARCTIC-BOREAL ALPINE-MONTANE	7	6	9	12	12	14	6	4	23	
ARCTIC-TEMPERATE ALPINE-MONTANE					1	1			1	
WESTERN ARCTIC ALPINE				1	1				2	
WESTERN ARCTIC-BOREAL ALPINE-MONTANE	1								1	
ALPINE							1		1	
BOREAL MONTANE	11	3	6	3	10	9	4	1	19	
Total	37	49	55	84	76	109	52	37	202	

Table 7. Distribution Elements of the Vascular Plant taxa.

Tables 5, 6, and 7 show that the 222 lichens were made up of 197 (88.3%) Circumpolar, 9 (4.1%) Amphi-Beringian, and 17 (7.7%) American taxa; the 112 bryophytes were composed of 109 (97.3%) Circumpolar and 3 (2.7%) American taxa; and the 202 vascular plants were comprised of 83 (41.1%) Circumpolar, 62 (30.7%) Amphi-Beringian, and 57 (28.4%) American taxa.

Table 4 shows that in the Yukon considerably more taxa were encountered in nonglaciaded areas above timberline than in any of the other three areas whereas in the Wrigley area the areas with the greatest numbers of taxa were those glaciaded areas above timberline with carbonate bedrock. Tables 5, 6, and 7 show that the same conclusions can be drawn for lichens, bryophytes, and vascular plants.

SUBSTRATE RELATIONSHIPS

In the descriptions that follow the lists of "principal" species are arranged in decreasing order of abundance and those taxa with only one trace occurrence have been left out.

Rock

Sedimentary Rocks

Forty-four lichens and five mosses were found on dolomite and limestone. The principal lichen taxa were Rhizocarpon chioneum, Protoblastenia rupestris, Lecidea lapicida, Asahinea chrysantha, Polyblastia intercedens, Collema auriculatum, Placynthium nigrum, Lecidea marginata, Xanthoria elegans, Verrucaria muralis, Lecidella stigmatia, Rhizocarpon geographicum, Caloplaca holocarpa, Candelariella aurella, Lecanora candida, Physcia caesia, P. sciastra, Rhizocarpon umbilicatum, Verrucaria virens, Acarospora glaucocarpa, Lecanora

caesiocinerea, Sporastatia testudinea, Caloplaca stillicidiorum, Collema polycarpon, Dermatocarpon miniatum var. complicatum, Lecanora polytropa, Lecidea dicksonii, L. rubiformis, Parmelia centrifuga, and Physconia muscigena. The principal moss taxa were Grimmia apocarpa, Orthotrichum rupestre, Grimmia atricha, and Hypnum vauderi.

Forty-nine lichens and six mosses were found on sandstone and siltstone. The principal lichen taxa were Agyrophora rigida, Rhizocarpon geographicum, Sporastatia testudinea, Umbilicaria hyperborea, Lecanora polytropa, Lecidea lapicida, Umbilicaria cylindrica, Cetraria commixta, Parmelia centrifuga, Lecidea armeniaca, Parmelia alpicola, Rhizocarpon eupetraeoides, Umbilicaria proboscidea, Lecidea atrobrunnea, Rhizocarpon badioatrum, R. macrosporum, Umbilicaria deusta, Alectoria minuscula, Alectoria pubescens, Cetraria hepatizon, Haematomma lapponicum, Hypogymnia intestiniformis, Lecanora rupicola, Lecidea aenea, L. dicksonii, L. macrocarpa, Lecidella stigmatea, Polyblastia intercedens, Protoblastenia rupestris, Rhizocarpon chioneum, Lecidea sp., Rhizocarpon cinereovirens, Rhizocarpon crystalligenum, Parmelia saxatilis, Umbilicaria polyphylla, and Xanthoria elegans. The principal bryophyte taxa were Chandonanthus setiformis, Andreaea rupestris, Scapania undulata, and Racomitrium lanuginosum.

Eight lichens and two mosses were found on "bird rocks", i.e. large blocks used by birds as resting sites and consequently with their surfaces enriched with bird manure. The principal taxa were Lecanora candida, Physcia sciastra, Xanthoria elegans, Grimmia apocarpa, Physconia muscigena, Hypnum vaucheri, and Collema auriculatum.

Metamorphic and Igneous Rocks

Thirty-one lichens and two mosses were found on chert, quartzite, granite, and diabase. The principle taxa were Rhizocarpon geographicum, Xanthoria elegans, Agyrophora rigida, Lecanora polytropha, Lecidea armeniaca, Sporastatia testudinea, Haematomma lapponicum, Lecanora cinerea, L. rupicola, Candelariella aurella, Cetraria commixta, Caloplaca holocarpa, Lecidea lapicida, Lecidella stigmatea, Rhizocarpon badioatrum, R. crystalligenum, R. disporum, R. eupetraeoides, Umbilicaria proboscidea, and Lecanora chrysoleuca.

Comparison of the Flora of Carbonate and Silicate Rocks

The difference in the lichen flora between carbonate and silicate rocks (cf. Nagano 1969) was strikingly brought-out in this study as, of 83 taxa encountered, 39 were restricted to silicates, 21 were restricted to carbonates, and 23 occurred on both. These included Caloplaca holocarpa, Candelariella aurella, Lecanora badia, L. caesiocinerea, L. polytropha, L. rupicola, Lecidea aenea, L. dicksonii, L. lapicida, L. marginata, L. rubiformis, Lecidella stigmatea, Parmelia centrifuga, Polyblastia intercedens, Protoblastenia rupestris, Rhizocarpon chioneum, R. cinereovirens, R. concentricum, R. geographicum, Sporastatia testudinea, Verrucaria muralis, V. virens, and Xanthoria elegans. Of the eleven mosses found on rock, only one, Grimmia apocarpa, was found on both carbonate and silicate rocks.

Soil

Soil above Timberline

A. Calcareous Soils

The soils of the nonglaciaded areas above timberline, with the exception of Site 34, and glaciaded areas above timberline with predominately dolomite and limestone bedrock are calcareous.

Sixty lichen taxa were found on calcareous soil. The principal ones were Cetraria tilesii, C. nivalis, Thamnolia subuliformis, Alectoria ochroleuca, Cladonia pocillum, Cetraria cucullata, C. laevigata, Solorina bispora, Dactylina ramulosa PD+, Cetraria islandica, Dactylina arctica PD+, Alectoria nigricans, Cornicularia aculeata, Dactylina arctica PD-, Lecidea decipiens, Cetraria richardsonii, Cornicularia divergens, Cladonia pyxidata, Cladina arbuscula ssp. beringiana, Cladonia coccifera, C. gracilis var. gracilis, Evernia perfragilis, Tonina caeruleonigricans, Cladina alpestris, C. mitis, Dermatocarpon hepaticum, Peltigera aphthosa, Solorina saccata, Lecidea rubiformis, Cladonia amaurocraea, C. gonecha, Cetraria cf. elenkinii, Cladina rangeriferina, Collema tenax, Stereocaulon alpinum, Cladonia cenotea, C. cornuta, C. deformis, C. gracilis var. dilatata, Collema auriculatum, Dactylina madreporiformis, Fulgensia bracteata, Peltigera sp., P. horixontalis, P. rufescens, Thrombium epigaeum, and Tonina tristis.

Sixty-six bryophyte taxa were found on calcareous soil. The principal ones were Ditrichum flexicaule, Hypnum bambergeri, Tortella tortuosa, T. fragilis, Tomenthypnum nitens, Rhytidium rugosum, Tortula ruralis, Abietinella abietina, Hylocomium splendens, Dicranum fuscensens, Hypnum vaucheri, Distichium capillaceum, Rhacomitrium lanuginosum, Ceratodon purpureus, Dicranum elongatum, Distichium sp., Meesea uliginosa, Myurella julacea, Bryum wrightii, Cirriphyllum cirrosum, Hypnum procerrimum, Aulacomnium acuminatum, Campylium stellatum, Oncophorus wahlenbergii, Brachythecium turgidum, Cinclidium stygium, Drepanocladus revolvens var. intermedius, Blepharostoma trichophyllum, Ptilium ciliare, Bryoerythrophyllum recurvirostre, Bryum pseudotriquetrum, Dicranum

acutifolium, Drepanocladus uncinatus, Hypnum bridelianum, Mnium orthorrhynchium, Polytrichum juniperinum, Timmia austriaca, Anastrophyllum minutum, Distichium inclinatum, Encalyptra rhapsocarpa, Mnium blyttii, Pleurozium schreberi, Pohlia cruda, P. nutans, and Sphagnum warstorffii.

One hundred and twenty-two herbs were found on calcareous soil, the principal ones being Androsace chamaejasme ssp. lehmanniana, Saxifraga oppositifolia, Pedicularis kanei ssp. kanei, Silene acaulis ssp. acaulis, Senecio resedifolius, Thalictrum alpinum, Carex misandra, C. scirpoidea, Anenome parviflora, Tofieldia pusilla, Oxytropis campestris ssp. jordalii, Parrya nudicaulis ssp. septentrionalis, Carex nardina, Chrysanthemum integrifolium, Draba nivalis, Minuartia arctica, Pedicularis capitata, Oxytropis nigrescens ssp. bryophila, Potentilla uniflora, Tofieldia coccinea, Pinguicula vulgaris ssp. vulgaris, Hedysarum mackenzii, Lesquerella calderi, Antennaria friesiana ssp. compacta, Carex glacialis, Oxytropis maydelliana, Arnica alpina ssp. angustifolia, Astragalus umbellatus, Carex petricosa, C. vaginata, Phlox sibirica, Saxifraga tricuspidata, Elymus innovatus, Hedysarum alpinum ssp. americanum, Lupinus arcticus, Minuartia rossii, Polygonum viviparum, Smelowskia borealis, Braya henryae, Cardamine purpurea, Carex membranacea, C. hyperborea, Cerastium beeringianum var. beeringianum, Eriophorum angustifolium ssp. triste, Melandrium apetalum ssp. arcticum, Parrya nudicaulis ssp. interior, Senecio lugens, Arctagrostis latifolia var. arundinacea, Campanula uniflora, Cystopteris fragilis, Draba macrocarpa, Equisetum arvense, E. scirpoides, Eriophorum brachyantherum, Lloydia serotina, Papaver walpolei, Pedicularis labradoria, Saussurea angustifolia, Senecio atropurpureus ssp. frigidus, Stellaria edwardsii, Amerorchis rotundifolia, Anenome drummondii, Astragalus alpinus ssp.

alpinus, Calamagrostis purpurascens ssp. purpurascens, Carex eburnea, C. microchaeta, C. stylosa, Draba sp., Festuca altaica, Geum glaciale, Hierochloe alpina, Juncus triglumis ssp. albescens, Lycopodium selago ssp. selago, Oxytropis campestris ssp. gracilis, Papaver alboroseum, Pedicularis sudetica ssp. interior, Potentilla biflora, Pyrola asarifolia var. purpurea, Saxifraga bronchialis ssp. funstonii, Epilobium latifolium, Galium boreale, Melandrium taimyrense, Oxytropis deflexa var. foliolosa, Valeriana capitata, Eriophorum anugstifolium ssp. subarcticum, Carex cf. supina ssp. spaniocarpa, C. sp., C. capillaris, grass, Poa glauca, Rubus chamaemorus, and Rumex arcticus.

Thirty-two shrubs and trees were found on calcareous soil. The principal ones were Cassiope tetragona, Salix reticulata ssp. reticulata, Dryas integrifolia ssp. integrifolia, Rhododendron lapponicum, Arctostaphylos rubra, Potentilla fruticosa, Andromeda polifolia, Salix rotundifolia, Dryas sp., Picea glauca, Betula glandulosa, Vaccinium uliginosum ssp. microphyllum, Dryas octopetala ssp. alaskensis, Vaccinium uliginosum ssp. alpinum, Vaccinium vitis-idaea ssp. minus, Salix glauca ssp. acutifolia, Betula nana ssp. exilis, Empetrum nigrum ssp. hermaphroditum, Ledum palustre ssp. groenlandicum, Salix alaxensis ssp. alaxensis, S. myrtillifolia, S. niphoclada var. muriei, Arctostaphylos uva-ursi var. uva-ursi, Juniperus communis ssp. nana, Salix arbusculoides, Salix arctica ssp. arctica, Alnus incana ssp. tenuifolia, Dryas octopetala var. octopetala, Ledum palustre ssp. decumbens, and Salix sitchensis.

B. Acidic Soils

Acidic soils were found in site 34 and in those glaciated areas above timberline which are predominately silicate rock.

Forty-seven lichen taxa were found on soil. The principal ones were

Cetraria cucullata, Alectoria ochroleuca, Cetraria laevigata, C. nivalis, Cladonia amaurocraea, Cladina arbuscula ssp. beringiana, Dactylina arctica PD-, Cetraria tilesii, Cladina alpestris, Cornicularia divergens, Alectoria nigricans, Cladina rangeriferina, Cladonia coccifera, C. metacorallifera, Cetraria richardsonii, Cladonia gracilis var. dilatata, C. gracilis var. gracilis, C. posillum, C. pyxidata, Stereocaulon alpinum, Thamnia subuliformis, Cladonia pleurota, C. squamosa, Coriscium viride, Lepraria neglecta, Parmelia omphalodes, Peltigera leucophlebia, and Cladina aberrans.

Thirty-four bryophyte taxa were found on acidic soils. The principal ones were Dicranum fuscensens, Ptilium ciliare, Dicranum elongatum, Rhacomitrium lanuginosum, Hylocomium splendens, Polytrichum juniperinum, Rhytidium rugosum, Chandonanthus setiformis, Aulacomnium turgidum, Pogonatum alpinum, Polytrichum piliferum, Anastrophyllum minutum, Ditrichum flexicaule, Sphagnum rubellum, S. warnstorffii, S. angustifolium, Drepanocladus exannulatus, and Pogonatum urnigerum.

Forty-two herbs were found on acidic soils. The principal ones were Hierochloe alpina, Arnica alpina ssp. angustifolia, Campanula uniflora, Lupinus arcticus, Lycopodium selago ssp. selago, Senecio lugens, Stellaria edwardsii, Artemisia arctica ssp. arctica, Carex microchaeta, C. stylosa, Luzula tundricola, Silene acaulis ssp. acaulis, Draba sp., Eriophorum vaginatum ssp. vaginatum, Papaver lapponicum ssp. occidentale, Pedicularis kanei ssp. kanei, Poa glauca, Saxifraga tricuspidata, and Festuca altaica.

Twenty shrubs and trees were found on acidic soils. The principal ones were Vaccinium vitis-idaea ssp. minus, Empetrum nigrum ssp. hermaphroditum, Salix reticulata ssp. reticulata, Cassiope tetragona, Salix glauca ssp.

acutifolia, Vaccinium uliginosum ssp. alpinum, V. uliginosum ssp. microphyllum, Betula nana ssp. exilis, Dryas sp., Ledum palustre ssp. decumbens, Salix phylicifolia ssp. planifolia, Betula glandulosa, Salix phlebophylla, Arctostaphylos rubra, Dryas octopetala var. octopetala, Salix arbusculoides, Andromeda polifolia, Dryas integrifolia ssp. integrifolia, Potentilla fruticosa, and Salix pulchra.

C. Comparison of the Flora of Alpine Calcareous and Acidic Soils

The difference in the lichen flora between acidic and calcareous soils was strikingly brought-out in this study as, of 75 taxa encountered, 28 were restricted to calcareous soils, and 15 were restricted to acidic soils. Thirty-two occurred on both including Alectoria nigricans, A. nitidula, A. ochroleuca, Cetraria cf. elenkinii, C. cucullata, C. laevigata, C. nivalis, C. richardsonii, C. tilesii, Cladina aberrans, C. alpestris, C. arbuscula ssp. beringiana, C. mitis, C. rangeriferina, Cladonia amaurocraea, C. cenotea, C. coccifera, C. gonecha, C. gracilis var. dilatata, C. gracilis var. gracilis, C. pocillum, C. pyxidata, Collema auriculatum, Cornicularia aculeata, C. divergens, Dactylina arctica PD-, D. ramulosa PD+, Lepraria neglecta, Peltigera aphthosa, P. leucophlebia, Stereocaulon alpinum, and Thamnomia subuliformis.

Eighty-one bryophyte taxa occurred on soil in alpine areas, of which 47 were restricted to calcareous soils and 15 were restricted to acidic soils. Nineteen occurred on both including Anastrophyllum minutum, Ptilium ciliare, Sphagnum warstorffii, Aulacomnium acuminatum, A. turgidum, Bryum stenotrichum, Ceratodon purpureus, Dicranum acutifolium, D. elongatum, D. fuscescens, Ditrichum flexicaule, Hylocomium splendens, Hypnum revolutum, H. vaucheri, Pleurozium schreberi, Pohlia nutans, Polytrichum juniperinum,

Rhacomitrium lanuginosum, and Rhytidium rugosum.

One hundred and thirty-six herbs occurred on soil in alpine areas, of which 95 were restricted to calcareous soils and 11 were restricted to acidic soils. Thirty occurred on both including Anemone drummondii, Arnica alpina ssp. angustidolia, Campanula uniflora, Carex sp., Carex microchaeta, C. nardina, C. stylosa, Draba sp., D. nivalis, Festuca altaica, Hierochloe alpina, Lupinus arcticus, Lycopodium selago ssp. selago, Minuartia arctica, M. rubella, Oxytropis campestris ssp. gracilis, Papaver lapponicum ssp. occidentale, Pedicularis capitata, P. kanei ssp. kanei, Poa glauca, Polygonum viviparum, Potentilla biflora, P. uniflora, Pyrola minor, Rubus chamaemorus, Saxifraga bronchialis ssp. funstonii, S. tricuspidata, Senecio lugens, Silene acaulis ssp. acaulis, and Stellaria edwardsii.

Thirty-five shrubs and trees occurred on soil in alpine areas of which 15 were restricted to calcareous soils and 3 were restricted to acidic soils. Seventeen shrubs and trees occurred on both including Andromeda polifolia, Arctostaphylos rubra, Betula glanulosa, B. nana ssp. exilis, Cassiope tetragona, Dryas sp., D. integrifolia ssp. integrifolia, D. octopetala var. octopetala, Empetrum nigrum ssp. hermaphroditum, Ledum palustre ssp. decumbens, Potentilla fruticosa, Salix arbusculoides, S. glauca ssp. acutifolia, S. reticulata ssp. reticulata, Vaccinium uliginosum ssp. alpinum, V. uliginosum ssp. microphyllum, and V. vitis-idaea ssp. minus.

Soil below Timberline

Fifty-two lichen taxa were found on soil below timberline. The principal ones were Cladina rangiferina, Cladonia amaurocraea, Cladina alpestris, C. arbuscula ssp. beringiana, Cetraria laevigata, Cladonia

gracilis var. dilatata, Peltigera aphthosa, Cladina mitis, Cetraria nivalis, Cladonia coccifera, C. cornuta, C. gonecha, Cetraria cucullata, Cladonia crispata, C. cenotea, C. pyxidata, C. deformis, C. multiformis, C. uncialis, Nephroma arcticum, Peltigera leucophlebia, Stereocaulon alpinum, Alectoria ochroleuca, Cetraria richardsonii, Cladonia grayi, C. phyllophora, Icmadophila ericetorum, Cladonia chlorophaea, C. fimbriata, C. pleurota, C. pocillum, Peltigera malacea, P. rufescens, Alectoria nigricans, Cladonia cariosa, C. coniocraea, Peltigera horizontalis, Stereocaulon tomentosum, Thamnia subuliformis, Cetraria tilesii, Cladonia subfurcata, and Peltigera canina.

Fifty-six bryophyte taxa were found on soil below timberline. The principal ones were Hylocomium splendens, Dicranum fuscescens, Sphagnum fuscum, Polytrichum juniperinum, Ptilidium ciliare, Aulacomnium palustre, Dicranum undulatum, D. elongatum, Pleurozium schreberi, Anastrophyllum minutum, Sphagnum rubellum, Aulacomnium acuminatum, Tomenthypnum nitens, Sphagnum balticum, S. lindbergii, Ceratodon purpureus, Sphagnum angustifolium, Aulacomnium turgidum, Bryum pseudotriquetrum, Ditrichum flexicaule, Drepanocladus exannulatus, Meesea uliginosa, Sphagnum nemoreum, Dicranum acutifolium, Drepanocladus vernicosus, Plagiomnium medium, Ptilium crista-castrensis, Rhytidium rugosum, Lophozia sp., Drepanocladus fluitans, Hypnum bambergeri, and Rhacomitrium lanuginosum.

Seventy-nine herbaceous species were found on soil in the lowland sites. The principal species were Rubus chamaemorus, Equisetum silvaticum, Pedicularis labradorica, Linnaea borealis ssp. americana, Petasites hyperboreus, Pyrola secunda ssp. secunda, Zygadenus elegans, Cornus canadensis, Epilobium angustifolium ssp. angustifolium, Equisetum

arvense, E. scirpoides, E. vaginatum ssp. vaginatum, Geocaulon lividum, Tofieldia pusilla, Anenome multifida, Arnica alpina ssp. angustifolia, Carex vaginata, Galium boreale, Platanthera obtusata, Pyrola asarifolia var. purpurea, Pyrola grandiflora, Amerorchis rotundifolia, Androsace chamaejasme ssp. lehmanniana, Anenome parviflora, Bupleurum triradiatum ssp. arcticum, Carex scirpoidea, Hedysarum alpinum ssp. americanum, Lupinus arcticus, Minuartia arctica. Pedicularis capitata, P. kanei ssp. kanei, Petasites palmatus, Pyrola secunda ssp. obtusata, Silene acaulis ssp. acaulis, Stellaria edwardsii, Carex capillaris, C. membranacea, C. microchaeta, and grass.

Thirty-eight shrub and tree taxa were found on soil in the lowland sites. The principal species were Vaccinium vitis-idaea ssp. minus, Ledum palustre ssp. decumbens, L. palustre ssp. groenlandicum, Rosa acicularis, Picea mariana, Alnus crispa ssp. crispa, Empetrum nigrum ssp. hermaphroditum, Salix glauca ssp. acutifolia, Andromeda polifolia, Betula nana ssp. exilis, Larix laricina, Picea glauca, Vaccinium uliginosum ssp. alpinum, Arctostaphylos rubra, Betula papyrifera ssp. humilis, Viburnum edule, Betula glandulosa, Shepherdia canadensis, Oxycoccus microcarpus, Populus tremuloides, Potentilla fruticosa, Pinus divaricata, Spirea beauverdiana, Arctostaphylos uva-ursi var. uva-ursi, Cassiope tetragona, Dryas sp., Juniperus communis ssp. nana, Rhododendron lapponicum, Salix sp., S. myrtillofolia, Alnus incana ssp. tenuifolia, Vaccinium uliginosum ssp. microphyllum, Populus balsamifera ssp. balsamifera, Dryas integrifolia ssp. integrifolia, Cornus stolonifera, and Salix reticulata ssp. reticulata.

Vegetabilia

Calcareous Areas above Timberline

Thirty-three lichen taxa were found on herbaceous plant remains and on the roots of shrubs in calcareous soil areas above timberline (Site 34 excepted). The principal ones were Lecanora epibryon, L. verrucosa, Rinodina roscida, Ochrolechia frigida, Lecidea assimilata, Ochrolechia upsaliensis, Buellia papillata, Pertusaria dactylina, Collema auriculatum, Lecidea pallida, Physconia muscigena, Blastenia sinapisperma, Collema polycarpon, Caloplaca stillicidiorum, C. jungermanniae, Lecidea glomerulosa, Pertusaria bryontha, Arthroraphis citrinella var. alpina, Baeomyces carneus, and Pertusaria glomerata.

Acidic areas above Timberline

Only ten lichen species were found on vegetabilia in acidic soil areas above timberline where this community was poorly developed. The principal species were Baeomyces carneus and Buellia papillata.

Lowlands

The vegetabilia community was almost completely lacking in the lowland sites. One lichen, Rinodina mniaraea, and one moss, Myurella julacea were present in trace amounts.

Dung

Five mosses were found on dung: Tetraplodon mnioides in five sites; Splachnum rubrum in 2 sites; and Hypnum bambergeri, Splachnum luteum, and Voitia hyperborea in one site each.

Rotten Wood

Forty-three lichens were found on rotten wood. The principal ones were Cladonia gracilis var. dilatata, Hypogymnia physodes, Parmeliopsis amigua, Parmelia sulcata, Cetraria pinastri, Evernia mesomorpha, Parmeliopsis hyperopta, Cladonia botrytes, C. coniocraea, Peltigera aphthosa, Alectoria glabra, Cladonia amaurocraea, C. bacillaris, C. cornuta, C. crispata, C. deformis, C. fimbriata, C. gracilis var. gracilis, Hypogymnia bitteri, Lecanora allophana, L. coilocarpa, and Peltigera leucophlebia.

Seventeen bryophytes were found on rotten wood. The principal ones were Ptilidium ciliare, Pohlia nutans, Pylaisiella polyantha, Brachythecium salebrosum, Dircranum undulatum, Drepanocladus uncinatus, Hypnum callichroum, and Hylocomium splendens.

Shrubs and Trees

Alnus crispa

Nineteen lichens and one moss, Pylaisiella polyantha, were observed on Alnus crispa. The principal lichens were Lecanora varia, Cetraria pinastri, Lecanora allophana, Parmelia sulcata, Rinodina archaea, Evernia mesomorpha, Parmelia septentrionalis, Alectoria glabra, Hypogymnia physodes, Usnea glabrescens, Buellia punctata, and Candelariella sp.

Alnus tenuifolia

The following lichens were found on Alnus tenuifolia: Cetraria pinastri, Evernia mesomorpha, Lecanora allophana, L. varia, Parmelia septentrionalis, P. sulcata, Rinodina archaea, and Usnea glabrescens.

Betula papyrifera ssp. humilis

Twenty-once lichens were found on Betula papyrifera ssp. humilis trees. The principal ones were Parmelia sulcata, Evernia mesomorpha, Alectoria glabra, Cetraria pinastri, Lecanora varia, Usnea glabrescens, Calicium populneum, Hypogymnia physodes, Lecanora allophana, and Parmelia septentrionalis.

The following three bryophytes were also found on Betula papyrifera ssp. humilis: Ptilidium ciliare, Hypnum callichroum, and Pylaisiella polyantha.

Larix laricina

Fifteen lichens were found on Larix laricina; the principal ones being Hypogymnia physodes, Parmeliopsis ambigua, Cetraria pinastri, Alectoria glabra, Evernia mesomorpha, Hypogymnia bitteri, Lecanora allophana, L. coilocarpa, and Lecidea glomerulosa.

Picea glauca

Twenty-nine lichens were found on Picea glauca trees; the principal ones being Hypogymnia physodes, Parmelia sulcata, Alectoria glabra, Evernia mesomorpha, Lecanora varia, Rinodina archaea, Cetraria pinastri, Lecanora allophana, Hypogymnia bitteri, Physcia aipolia, Usnea glabrescens, U. soreidiifera, Alectoria ochroleuca, Caloplaca holocarpa, Lecanora coilocarpa, Parmelia septentrionalis, Parmeliopsis ambigua, Ramalina minuscula, and Cetraria cucullata.

Three bryophyte taxa were found on Picea glauca: Only one, Ptilidium ciliare was present in more than one site.

Picea mariana

Twenty-six lichens and two bryophytes were found on Black Spruce trees. The principal taxa, all lichens, were Hypogymnia physodes, Alectoria glabra, Evernia mesomorpha, Cetraria pinastri, Parmeliopsis ambigua, Usnea glabrescens, Hypogymnia bitteri, Mycoblastus sanguinarius, Parmeliopsis aleurites, Cetraria halei, Hypogymnia austerodes, Lecanora allophana, L. varia, and Parmelia sulcata.

Pinus divaricata

Sixteen lichen taxa were found on Jack Pine. The principal species were Alectoria glabra, Cetraria halei, C. pinastri, Evernia mesomorpha, Hypogymnia physodes, Lecanora varia, Parmelia sulcata, Lecanora allophana, L. coilocarpa, Parmelia septentrionalis, Parmeliopsis aleurites, P. ambigua, P. hyperopta, and Usnea glabrescens.

One liverwort, Ptilidium ciliare, was found growing on Pinus divaricata in two sites.

Populus balsamifera ssp. balsamifera

The following lichens and two mosses, Brachythecium salebrosum and Drepanocladus uncinatus, were found growing on Balsam Poplar trees: Caloplaca holocarpa, Bacidia sphaeroides, Lecidea glomerulosa, and Leptogium saturninum.

Populus tremuloides

The following lichens and two mosses, Brachythecium salebrosum and Pylaisiella polyantha, were found growing on Aspen: Caloplaca holocarpa, Pyrenula leucoplaca, Caloplaca cerina, Lecanora varia, Lecidea fuscescens, and Peltigera canina.

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Salix ssp.

Eighteen lichen taxa and three mosses were found on willows. The principal taxa, all lichens, were Caloplaca holocarpa, Lecanora allophana, L. varia, Parmelia septentrionalis, P. sulcata, Buellia triphragmioides, Cetraria pinastri, Evernia mesomorpha, and Rinodina archaea.

COVER

Sites	YUKON				NORTHWEST TERRITORIES			
	GB	GA	NB	NA	GB	GAC	GAS	NAC
	7*	1	5	22	11**	18	5	8
Bare rock/gravel	-	20.0	1.0	60.0	0.2	29.4	15.5	67.4
Bare soil	-	-	0.2	2.7	-	2.4	0.8	2.8
Duff/peat	0.9	2.0	2.6	0.2	5.7	0.1	0.4	-
Algae								
Lichens	30.3	54.0	21.3	12.6	17.7	20.5	47.6	7.4
Bryophytes	11.4	3.0	8.1	2.2	15.5	10.4	10.4	3.4
Herbs	3.3	9.0	8.1	8.9	7.0	16.8	15.5	5.8
Trees and Shrubs	33.0	12.0	43.6	11.4	53.8	20.3	8.6	13.2

*not including Site 17, a recent burn

**not including Site 79 which lacked cover data

Table 8. Average percent cover per site for the eight study areas.

Table 8 gives the average percent cover per site for the areas studied. The following general conclusions can be made.

(1) The average cover of bare rock or gravel in the glaciated, alpine areas studied in the Northwest Territories is 29.4% on carbonate sites and 15.5% on silicate sites; 67.4% in nonglaciated alpine, carbonate sites;

and 0.2% in lowland sites. It is interesting to note that the rock or gravel cover was higher in southern areas (Northwest Territories) compared to similar northern sites in the Yukon. This is a reflection of the harsher environmental conditions farther north which retard the development of extensive plant communities.

(2) The average cover of bare soil per site was low in all areas.

(3) The average cover of duff or peat was low in all areas.

(4) The average cover of lichens in glaciated alpine areas in the Northwest Territories was 20.5% in carbonate sites and 47.6% in silicate sites; 7.4% in nonglaciated alpine, carbonate sites; and 17.7% in lowland sites. It was much higher in glaciated, carbonate areas of the Yukon (54.0%) than in the Northwest Territories (20.5%), and in those of the lowlands where Yukon sites have 30.3% whereas those in the Northwest Territories have 17.7%.

(5) The average cover of bryophytes in the Northwest Territories is 10.4% in glaciated, alpine, carbonate rock sites; 10.4% in glaciated, alpine, silicate rock sites; 3.4% in nonglaciated, alpine, carbonate sites; and 15.5% in lowland sites. The figures for comparable areas in the Yukon are significantly lower.

(6) The average cover of herbaceous plants in the Northwest Territories is 16.8% in glaciated, alpine, carbonate rock sites; 15.5% in glaciated, alpine, silicate rock sites; 5.8% in nonglaciated, alpine, carbonate sites; and only 7.0% in lowland sites. The figures for comparable areas in the Yukon are lower in most cases.

(7) The average cover of trees and shrubs in the Northwest Territories is 20.3% in glaciated, alpine, carbonate rock sites; 8.6% in glaciated, alpine, silicate rock sites; 13.2% in nonglaciated, alpine, carbonate sites;

and 53.8% in lowland sites. The figures for comparable areas in the Yukon are significantly lower.

ALBEDO

Aerial photograph interpretation in the Canadian North demands an understanding of what species of lichens and bryophytes have more than trace color values and into what color groups they fall. As each type of area has its own particular type of lichen and bryophyte communities it is also important to have some understanding of what these are.

Tables 9-11 list the principal lichens and mosses encountered in the study areas along an albedo gradient from light to dark. Those taxa with an average cover of less than 0.3% were omitted (except for Y-GA in which one site was examined). A plus (+) was given the subjective value of 0.5% throughout.

It is important to remember that average cover figures give indications of general trends only that it is the departure, in a given site, from those norms that yields the most interesting data.

The present study certainly supports the general theory that in lowland areas in the northern part of the Subarctic Zone much of the vegetation is in various stages of a cyclical development dominated by a Reindeer Lichen (Cladina) tundra having a shallow active layer and a high albedo. This, when burned, changes abruptly to areas of low albedo with a deep active layer. These become vegetated by mosses and sedges with a somewhat higher albedo, and then by open woodland progressively vegetated by lichens with a high albedo. Later, with progressive shallowing of the active layer, the trees thin out and the Reindeer Lichen tundra develops.

TERRITORY	Y	NWT	Y	Y	NWT	NWT	Y	NWT
AREA	GB	GB	NB	GA	GAC	GAS	NA	NAC
SITES	8	12	5	1	18	8	22	5
<u>White to Light Yellow</u>								
<i>Cetraria cucullata</i>	.3	1.4	7.4	17.0	3.3	5.4	1.4	.5
<i>C. nivalis</i>	.3	1.5	1.1	10.0	3.3	2.4	1.2	.7
<i>Cladina alpestris</i>	20.8	6.4	2.4	2.0	.1	1.1	.4	-
<i>C. arbuscula</i> ssp. beringiana	.5	.8	2.6	-	.4	1.2	.2	-
<i>C. mitis</i>	.4	1.6	.2	-	.1	-	.1	-
<i>Cladonia amaurocraea</i>	1.2	.3	1.2	-	.1	.4	.1	-
<i>C. cenotea</i>	.3	-	-	-	-	-	-	-
<i>C. coccifera</i>	.3	.2	.3	-	.1	.2	.1	.2
<i>C. cornuta</i>	.4	.1	-	-	-	-	-	-
<i>C. deformis</i>	.3	-	-	-	-	-	-	-
<i>C. gonecha</i>	.4	.2	.3	-	.1	-	-	-
<i>C. pocillum</i>	-	.1	-	.5	.4	.2	.3	.5
<i>C. pyxidata</i>	-	.1	.3	-	.1	.2	.2	-
<i>C. uncialis</i>	-	.3	-	-	-	-	-	-
<i>Dactylina arctica</i> PD-	-	-	-	-	.3	1.2	.1	-
<i>D. arctica</i> PD ⁺	-	-	-	.5	.1	-	.3	.4
<i>D. ramulosa</i>	-	-	-	-	.2	-	.3	.5
<i>Evernia perfragilis</i>	-	-	-	.5	.3	-	-	-
<i>Icmadophila ericetorum</i>	.2	-	.4	-	-	-	-	-
<i>Nephroma arcticum</i>	2.8	-	-	-	-	-	-	-
<i>Thamnolia subuliformis</i>	-	-	.3	1.0	.5	.2	1.1	.7
<u>Gray</u>								
<i>Cladina rangiferina</i>	3.8	1.0	3.3	-	.1	.5	-	-
<i>Cladonia crispata</i>	.3	.1	.2	-	-	-	-	-
<i>Solorina bispora</i>	-	-	-	-	-	-	.3	.5
<i>Stereocaulon alpinum</i>	.1	-	1.2	-	-	.2	.2	-
<i>Tonina caeruleonigricans</i>	-	-	-	.5	.1	-	-	.2
<u>Yellow</u>								
<i>Cetraria tilesii</i>	-	.1	-	4.0	1.9	.4	1.3	1.3
<u>Yellowish-green</u>								
<i>Alectoria ochroleuca</i>	-	.3	.6	5.0	2.6	4.0	1.9	-
<u>Orange</u>								
<i>Lecidea decipiens</i>	-	-	-	.5	.1	-	.1	.3
<u>Brown</u>								
<i>Cetraria laevigata</i>	.5	.5	1.1	4.0	2.5	3.3	.3	-
<i>C. richardsonii</i>	-	.1	2.4	-	.5	.2	.2	.2
<i>C. islandica</i>	-	-	-	-	.2	-	.3	.4
<i>Cladonia gracilis</i> var. dilatata	.4	.3	-	-	-	.2	-	-
<i>Cornicularia divergens</i>	-	-	-	3.0	.1	.2	.2	-
<i>C. aculeata</i>	-	-	-	-	.1	-	.2	.3
<i>Lecidea rubiformis</i>	-	-	-	.5	.1	-	.1	-
<i>Tonina tristis</i>	-	-	-	.5	.1	-	-	-
<u>Green</u>								
<i>Peltigera aphthosa</i>	.5	.3	-	-	.1	-	.1	-
<u>Black</u>								
<i>Alectoria nigricans</i>	-	-	-	3.0	-	.2	.3	-

Table 9. The principal soil lichens of the study areas arranged along an albedo gradient from light to dark. The numbers indicate the average cover of each species in the examined sites.

TERRITORY	Y	NWT	Y	Y	NWT	NWT	Y	NWT
AREA	GB	GB	NB	GA	GAC	GAS	NA	NAC
<u>Light Colored Species</u>								
<i>Rhacomitrium lanuginosum</i>	-	-	-	.5	-	1.3	.2	-
<i>Sphagnum angustifolium</i>	.5	-	-	-	-	-	-	-
<i>S. balticum</i>	-	-	.7	-	-	-	-	-
<i>S. fuscum</i>	2.5	1.9	6.0	-	-	.2	-	-
<i>S. lindbergii</i>	.3	-	.6	-	-	-	-	-
<i>S. nemoreum</i>	.5	-	-	-	-	-	-	-
<i>S. rubellum</i>	.9	-	.2	-	-	.4	-	-
<i>S. warnstorffii</i>	-	-	-	-	.6	.4	-	-
<u>Dark Colored Species</u>								
<i>Abietinella abietina</i>	-	-	-	-	.1	-	.1	.3
<i>Anastrophyllum minutum</i>	.3	-	-	-	-	.1	-	-
<i>Aulacomnium acuminatum</i>	-	.3	.2	-	1.3	-	-	-
<i>A. turgidum</i>	-	-	.3	-	-	.6	-	-
<i>Bryum pseudotriquetrum</i>	-	.1	-	-	.6	-	-	-
<i>Ceratodon purpureus</i>	.5	.1	-	-	.1	-	.1	-
<i>Dicranum elongatum</i>	.2	.3	.3	-	.1	.3	+	-
<i>D. fuscescens</i>	.4	-	.3	-	.2	.3	.1	.5
<i>D. undulatum</i>	.4	.4	-	-	-	-	-	-
<i>Ditrichum flexicaule</i>	-	.1	-	.5	.4	.1	.4	.7
<i>Drepanocladus revolvens</i>								
var. <i>intermedius</i>	-	-	-	-	.9	-	-	-
<i>Hylocomium splendens</i>	1.4	8.3	.9	-	2.8	2.0	.1	.8
<i>Hypnum bambergeri</i>	-	.2	-	.5	.4	-	.3	.4
<i>H. vaucheri</i>	-	-	-	.5	.2	-	.1	-
<i>Lophozia</i> sp.	-	.6	-	-	-	-	-	-
<i>Meesea uliginosa</i>	-	1.7	-	-	.3	-	-	-
<i>Pleurozium schreberi</i>	.3	.1	-	-	-	-	-	-
<i>Polytrichum juniperinum</i>	1.4	.8	-	-	-	1.4	.1	-
<i>Ptilidium ciliare</i>	.2	.3	.2	-	.1	.8	-	-
<i>Rhytidium rugosum</i>	-	-	-	.5	.3	.4	.2	-
<i>Tomenthypnum nitens</i>	-	2.7	-	-	2.1	-	.1	.3
<i>Tortella fragilis</i>	-	-	-	-	.2	-	.3	-
<i>T. tortuosa</i>	-	-	-	.5	.3	-	.3	.4
<i>Tortula ruralis</i>	-	-	-	.5	.1	-	.1	.3

Table 11. The principal soil bryophytes arranged along an albedo gradient from light to dark. The numbers indicate the average cover of each species in the examined sites.

The data in Tables 9-11 also shows that there are important floristic differences resulting in different albedo responses between lowland sites and those above timberline. The upper sites can be divided into those with carbonate bedrock and a higher albedo, and those with silicate bedrock and a lower albedo (cf. esp. Table 10).

GLACIAL REFUGIA

Steere (1953, 1954, 1958a, 1959, 1963, 1965), Crum (1965), Brassard (1971a, 1971b) and Schofield (1972) have pointed out with bryophytes; Lambert (1966), Krog (1968), and Thomson (1972) with lichens; and Porsild (1958), Calder (1959), Mulligan and Porsild (1969), Mosquin (1971), McNeill (1972), and Randhawa and Beamish (1972) with vascular plants; that a very interesting group of endemic species, and a number of disjunct species with more extensive distributions farther south, occur in, or near, unglaciated regions in the North American arctic. The areas referred to are the north slope of the Brooks Range of Alaska, certain mountains of the Yukon and of the western Northwest Territories, and certain regions of the Canadian Arctic Archipelago. Steere (1953) suggest "that we are dealing with the last remnants of a widely distributed Tertiary or interglacial flora that originated in some far distant area, probably in the southern hemisphere, and that has now been restricted to the arctic regions by the destructive activities of continental glaciations at lower altitudes, as well as by the success in competition of more rapidly speciating genera and of younger and more aggressive species there." Steere (1965) feels that "the present distribution of many critical bryophytes contributed adequate evidence to the idea that many species survived at least part of the Ice

Age in situ, in refugia that were situated either on mountains that projected through the continental glaciers (nunataks) or in extensive lowland areas like arctic Alaska where the prevailing precipitation was too low to produce continental ice sheets."

The opportunity to work in the glacial refugia in the Knorr Range, Wernecke Mountains, and Richardson Mountains in the Yukon, as well as the Backbone Range in the Northwest Territories was particularly welcomed. These areas turned out to be rich in species belonging to both Amphiberingian and Western North American distribution patterns. The fact that some of these species also occurred in the glaciated areas studied indicates that they have had sufficient ecological magnitude to be able to expand into other areas following glacial retreat.

SUMMARY

Botanical studies were carried out from June 28 to July 14, 1972, under the terms of a Geological Survey of Canada Personal Services Contract (Purchase Order 90125). The purpose of this research was to study lichens and associated flora in order to obtain correlations between their ecology and distribution with respect to particular rock types, and glaciated versus nonglaciated areas.

Thirty-six sites (1-36) were studied in the Yukon while working out of Dr. O. Hughes' Camp at Chappie Lake, south of the Peel River. Twenty-three of these sites were above timberline, while 13 were in forest communities. Twenty-seven of the sites were in nonglaciated areas in the Knorr Range, Wernecke Mountains and Richardson Mountains.

Forty-three sites (37-79) were studied in the Northwest Territories while working out of Dr. N. Rutter's camp at Wrigley on the Mackenzie River. Thirty-one of these sites were above timberline, while 12 were in forest communities. Five of the sites were in nonglaciaded areas in the Backbone Ranges.

Five hundred and thirty-six taxa were encountered of which most of the vascular plants are new records, and none of the lichens and bryophytes have been previously reported for the areas studied. The total is broken down as follows: 2 algae; 222 lichens; 112 liverworts, peat mosses, and mosses; and 202 herbs, shrubs, and trees.

Most of the plants encountered (72.4%) have Circumpolar distributions, the others being Amphi-Beringian (13.3%) and American (14.4%); 88.3% of the lichens, 97.3% of the bryophytes, and 41.1% of the vascular plants were Circumpolar.

Forty-four lichens and 5 mosses were found on dolomite and limestone, 49 lichens and 6 mosses on sandstone and siltstone, 8 lichens and 2 mosses on manured "bird rocks", and 31 lichens and 2 mosses on chert, quartzite, granite, and diabase. Thirty-nine lichens were found to be restricted to silicates, 21 to carbonates and 23 occurred on both.

Sixty lichens, 66 bryophytes, 122 herbs, and 32 shrubs and trees were found on calcareous soil above timberline. In contrast, 47 lichens, 34 bryophytes, 42 herbs, and 22 shrubs and trees were found on acidic soils above timberline. Many of these species were found to be restricted to either calcareous or acidic soils and can be used as indicators.

Fifty-two lichens, 56 bryophytes, 79 herbs, and 38 shrubs and trees were found on soil below timberline.

A rich vegetabilia community composed of 33 lichen taxa was found in calcareous regions above timberline. This community was poorly developed in acidic regions above timberline and was essentially nonexistent below timberline.

Five mosses were found on dung; 43 lichens and 17 bryophytes on rotten wood; 19 lichens and 1 moss on Alnus Crispa; 8 lichens on Alnus tenuifolia; 23 lichens on Betula papyrifera ssp. humilis; 15 lichens on Larix laricina; 29 lichens and 3 bryophytes on Picea glauca; 26 lichens and 2 bryophytes on Picea mariana; 16 lichens and 1 bryophyte on Pinus divaricata; 4 lichens and 2 bryophytes on Populus balsamifera; 6 lichens and 2 bryophytes on Populus tremuloides; and 18 lichens and 3 bryophytes on Salix spp.

Table 8 summarizes all cover components for the eight ecological units recognized in the study. The percentage bare rock/gravel was highest in carbonate areas above timberline. The percentage of bare soil and duff or peat was low in all areas. The percentage of lichens was high in most units, being lowest in high elevation mountain areas with carbonate bedrock. The lichen cover was generally higher, often considerably so, than that of bryophytes, herbs, and woody plants. The percentage of bryophytes was highest in lowland sites as was the case with woody plants. The greatest herbaceous cover occurred above timberline.

Tables 9-11 list the principal lichens and mosses encountered in the sites along an albedo gradient from light to dark. Significant differences in albedo pattern existed between many of the ecological units studied as, for example, between carbonate and silicate areas. The data contained in the individual site analyses supports basic theories dealing with cyclical succession in the north.

The nonglaciaded areas studied were found to be rich in species belonging to both Amphi-Beringian and Western North American distribution patterns.

Appendix I contains the detailed observations made on cover and species presence in search of the 79 sites. Appendices II-V contain observations made on leeches, spiders, aquatic beetles, and Lepidoptera.

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APPENDIX I.
SUMMATION OF THE SITE DATA

Site: 1. Location: YUKON, Peel River Watershed, west shore of Chappie Lake. Date: June 30. Elevation: 1000 ft. Aspect: 5° E. 65° 47' N, 134° 56' W. Habitat: glaciated area; dense Alnus crispa - Picea glauca community over clay soil. Voucher Numbers: 28903-28995.

	Cover %		Cover %
Bare rock/gravel	-	<u>Physcia aipolia</u>	+
Soil	-	<u>Ramalina minuscula</u>	+
Duff/peat	5	<u>Rinodina archaea</u>	+
Lichens	5	<u>Usnea glabrescens</u>	+
Bryophytes	5	<u>Xanthoria candelaria</u>	+
Herbaceous vegetation	5		
Woody vegetation	80	<u>Bryophytes</u>	
<u>Lichens</u>		<u>Hylocomium splendens</u>	4
		<u>Anastrophyllum minutum</u>	+
<u>Cladina mitis</u>	1	<u>Aulacomnium palustre</u>	+
<u>Alectoria glabra</u>	+	<u>A. turgidum</u>	+
<u>Buellia punctata</u>	+	<u>Brachythecium salebrosum</u>	+
<u>B. zahlbruckneri</u>	+	<u>Dicranum fragilifolium</u>	+
<u>Candelaria concolor</u>	+	<u>D. fuscescens</u>	+
<u>Cetraria pinastri</u>	+	<u>D. undulatum</u>	+
<u>Cladina alpestris</u>	+	<u>Drepanocladus uncinatus</u>	+
<u>C. rangiferina</u>	+	<u>Hypnum callichroum</u>	+
<u>Cladonia amaurocraea</u>	+	<u>Lophocolea minor</u>	+
<u>C. cenotea</u>	+	<u>Plagiomnium medium</u>	+
<u>C. coccifera</u>	+	<u>Pohlia nutans</u>	+
<u>C. coniocraea</u>	+	<u>Polytrichum juniperinum</u>	+
<u>C. cornuta</u>	+	<u>Ptilidium ciliare</u>	+
<u>C. fimbriata</u>	+	<u>Ptilium crista-castrensis</u>	+
<u>C. gonecha</u>	+	<u>Pylaisiella polyantha</u>	+
<u>C. gracilis var. dilatata</u>	+	<u>Tetraplodon mnioides</u>	+
<u>C. multififormis</u>	+	<u>Tomenthypnum nitens</u>	+
<u>C. phyllophora</u>	+	<u>Tritomaria scitula</u>	+
<u>C. pyxidata</u>	+		
<u>Evernia mesomorpha</u>	+	<u>Herbaceous Plants</u>	
<u>Hypogymnia austerodes</u>	+		
<u>H. bitteri</u>	+	<u>Pyrola grandiflora</u>	3
<u>H. physodes</u>	+	<u>Boschniakia rossica</u>	+
<u>Lecanora allophana</u>	+	<u>Corallorhiza trifida</u>	+
<u>L. coilocarpa</u>	+	<u>Cyperaceae/Gramineae</u>	+
<u>L. varia</u>	+	<u>Lycopodium annotinum ssp. pungens</u>	+
<u>Nephroma arcticum</u>	+	<u>Petasites palmatus</u>	+
<u>Parmelia olivacea</u>	+	<u>Pyrola secunda ssp. obtusata</u>	+
<u>P. septentrionalis</u>	+		
<u>P. sulcata</u>	+	<u>Shrubs and Trees</u>	
<u>Parmeliopsis aleurites</u>	+		
<u>P. ambigua</u>	+	<u>Alnus crispa ssp. crispa</u>	40
<u>P. hyperopta</u>	+	<u>Picea glauca</u>	28
<u>Peltigera aphthosa</u>	+	<u>Betula papyrifera ssp. humilis</u>	5
<u>P. leucophlebia</u>	+	<u>Viburnum edule</u>	3
<u>P. malacea</u>	+	<u>Salix spp.</u>	2
<u>P. rufescens</u>	+	<u>Vaccinium vitis-idaea ssp. minus</u>	1
<u>P. spuria</u>	+	<u>Rosa acicularis</u>	+

Site: 2. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4300 ft. Aspect: 0-10° S, 65° 26' N, 134° 29' W.
 Habitat: unglaciated area; limestone and dolomite rubble in col, Dryas integrifolia community. Voucher Numbers: 28997-29023.

	Cover %		Cover %
Bare rock/gravel	77	<u>Herbaceous Plants</u>	
Soil	10		
Duff/peat	-	Carex nardina	1
Lichens	3	Oxytropis nigrescens ssp. bryophila	1
Bryophytes	+	Androsace chamaejasme ssp. lehmanniana	+
Herbaceous vegetation	4	Anemone parviflora	+
Woody vegetation	6	Braya humilis ssp. richardsonii	+
		Chrysanthemum integrifolium	+
<u>Lichens</u>		Draba nivalis	+
Cetraria tilesii	1	Melandrium apetalum ssp. arcticum	+
Thamnotia subuliformis	1	Parrya nudicaulis ssp. septentrionalis	+
Caloplaca jungermanniae	+	Pedicularis kanei ssp. kanei	+
Cetraria nivalis	+	Potentilla uniflora	+
Dactylina madreporiformis	+	Saxifraga oppositifolia	+
D. ramulosa PD+	+	Senecio resedifolius	+
Lecanora verrucosa	+	Silene acaulis ssp. acaulis	+
Lecidea decipiens	+		
L. lapicida	+	<u>Shrubs and Trees</u>	
L. marginata	+		
Lecidella stigmatea	+	Dryas integrifolia ssp. integrifolia	5
Rinodina roscida	+	Salix rotundifolia	+
Solorina bispora	+		
Toninia caeruleonigricans	+		
<u>Bryophytes</u>			
Ditrichum flexicaule	+		
Tortella fragilis	+		

Site: 3. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4300 ft. Aspect: 0-15°N. 65°26'N, 134°29'W.
 Habitat: unglaciated area; dolomite rubble in snow accumulation area of
 col; Dryas integrifolia - Cassiope tetragona community. Voucher Numbers:
 29024-29050.

	Cover %		Cover %
Bare rock/gravel	64	<u>Herbaceous Plants</u>	
Soil	10		
Duff/peat	-	<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
Lichens	5	<i>Androsace chamaejasme</i> ssp.	
Bryophytes	2	<i>lehmanniana</i>	+
Herbaceous vegetation	3	<i>Anemone parviflora</i>	+
Woody vegetation	16	<i>Draba nivalis</i>	+
		<i>Oxytropis nigrescens</i> ssp.	
<u>Lichens</u>		<i>bryophila</i>	+
		<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>Cetraria nivalis</i>	1	<i>Potentilla uniflora</i>	+
<i>C. tilesii</i>	1	<i>Saxifraga oppositifolia</i>	+
<i>Alectoria nigricans</i>	+		
<i>A. ochroleuca</i>	+	<u>Shrubs and Trees</u>	
<i>Cetraria cucullata</i>	+		
<i>C. islandica</i>	+	<i>Dryas</i> sp.	10
<i>Cornicularia aculeata</i>	+	<i>Cassiope tetragona</i> ssp.	
<i>Dactylina arctica</i> PD+	+	<i>tetragona</i>	5
<i>D. ramulosa</i> PD+	+	<i>Salix reticulata</i> ssp. <i>reticulata</i>	+
<i>Pertusaria bryontha</i>	+		
<i>P. dactylina</i>	+		
<i>Polyblastia intercedens</i>	+		
<i>Rinodina roscida</i>	+		
<i>Thamnomia subuliformis</i>	+		
<u>Bryophytes</u>			
<i>Abietinella abietina</i>	+		
<i>Ceratodon purpureus</i>	+		
<i>Ditrichum flexicaule</i>	+		
<i>Hypnum bambergeri</i>	+		
<i>H. vaucheri</i>	+		
<i>Rhytidium rugosum</i>	+		
<i>Tomenthypnum nitens</i>	+		
<i>Tortella fragilis</i>	+		

Site: 4. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4380 ft. Aspect: 0-10°. 65°26'N, 134°29'W.
 Habitat: unglaciated area; summit with dolomitized limestone rubble,
Dryas octopetala community. Voucher Numbers: 29051-29094.

	Cover %		Cover %
Bare rock/gravel	71	<u>Bryophytes</u>	
Soil	5		
Duff/peat	-	<i>Abietinella abietina</i>	
Lichens	6	<i>Ditrichum flexicaule</i>	
Bryophytes	2	<i>Grimmia apocarpa</i>	
Herbaceous vegetation	5	<i>Hypnum bambergeri</i>	
Woody vegetation	11	<i>Racomitrium lanuginosum</i>	
		<i>Rhytidium rugosum</i>	
		<i>Tetraplodon mnioides</i>	
		<i>Tortella fragilis</i>	
<u>Lichens</u>		<u>Herbaceous Plants</u>	
<i>Cetraria tilesii</i>	1		
<i>Lecanora candida</i>	1		
<i>Thamnolia subuliformis</i>	1		
<i>Alectoria nigricans</i>	+	<i>Carex nardina</i>	1
<i>A. ochroleuca</i>	+	<i>Oxytropis nigrescens</i> ssp.	
<i>Asahinea chrysantha</i>	+	<i>bryophila</i>	1
<i>Cetraria cucullata</i>	+	<i>Androsace chamaejasme</i> ssp.	+
<i>C. cf. elenkinii</i>	+	<i>lehmanniana</i>	+
<i>C. laevigata</i>	+	<i>Draba nivalis</i>	+
<i>C. nivalis</i>	+	<i>Minuartia arctica</i>	+
<i>Collema auriculatum</i>	+	<i>M. rossii</i>	+
<i>Cornicularia divergens</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>Dactylina arctica</i> PD-	+	<i>jordalii</i>	+
<i>Lecanora caesiocinerea</i>	+	<i>Parrya nudicaulis</i> ssp.	
<i>L. epibryon</i>	+	<i>septentrionalis</i>	+
<i>L. rupicola</i>	+	<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>Lecidea marginata</i>	+	<i>Potentilla uniflora</i>	+
<i>Ochrolechia frigida</i>	+	<i>Saxifraga tricuspidata</i>	+
<i>Rhizocarpon geographicum</i>	+	<i>Senecio resedifolius</i>	+
<i>Sporastatia testudinea</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
		<i>Smelowskia borealis</i>	+
		<i>Woodsia glabella</i>	+
		<u>Shrubs and Trees</u>	
		<i>Dryas octopetala</i> var. <i>octopetala</i>	10
		<i>Salix rotundifolia</i>	1

Site: 5. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4300 ft. Aspect: 0-10°. 65°26'N, 134°29'W.
 Habitat: unglaciated area; ridge with rubble and large blocks of limestone,
 lichen community. Voucher Numbers: 29095-29154.

	Cover %		Cover %
Bare rock/gravel	75	<u>Bryophytes</u>	
Soil	2		
Duff/peat	-	Hylocomium splendens	2
Lichens	10	Abietinella abietina	+
Bryophytes	3	Dicranum acutifolium	+
Herbaceous vegetation	3	Distichium capillaceum	+
Woody vegetation	7	Ditrichum flexicaule	+
		Drepanocladus uncinatus	+
<u>Lichens</u>		Hypnum bambergeri	+
		H. bridelianum	+
Rhizocarpon chioneum	2	Mnium orthorrhynchum	+
Cetraria cucullata	1	Myurella julacea	+
C. nivalis	1	Orthotrichum rupestre	+
C. tilesii	1	Rhacomitrium lanuginosum	+
Thamnolia subuliformis	1	Timmia austriaca	+
Acarospora glaucocarpa	+	Tomenthypnum nitens	+
Alectoria nigricans	+	Tortella fragilis	+
A. ochroleuca	+		
Asahinea chrysantha	+	<u>Herbaceous Plants</u>	
Buellia papillata	+		
Caloplaca stillicidiorum	+	Anemone parviflora	+
Cetraria cf. elenkinii	+	Draba nivalis	+
C. islandica	+	Carex nardina	+
C. laevigata	+	Minuartia sp.	+
Cladonia pocillum	+	Oxytropis nigrescens ssp.	
C. pyxidata	+	bryophila	+
Collema auriculatum	+	Parrya nudicaulis ssp.	
C. polycarpon	+	septentrionalis	+
Cornicularia aculeata	+	Pedicularis capitata	+
C. divergens	+	P. kanei ssp. kanei	+
Dactylina arctica PD+	+	Potentilla uniflora	+
D. madreporiformis	+	Saxifraga oppositifolia	+
D. ramulosa PD+	+	S. tricuspidata	+
Evernia perfragilis	+	Silene acaulis ssp. acaulis	+
Lecanora epibryon	+		
L. verrucosa	+	<u>Shrubs and Trees</u>	
Lecidea pallida	+		
Lecidella stigmatea	+	Dryas sp.	4
Ochrolechia upsaliensis	+	Cassiope tetragona ssp.	
Pertusaria dactylina	+	tetragona	2
Physcia caesia	+	Salix polaris ssp. pseudopolaris	+
Polyblastia intercedens	+	S. reticulata ssp. reticulata	+
Protoblastenia rupestris	+	S. rotundifolia	+
Rinodina roscida	+		
Solorina bispora	+		
Stereocaulon alpinum	+		
Xanthoria elegans	+		

Site: 6. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4250 ft. Aspect: 5-10° S. 65°26'N, 134°29'W.
 Habitat: unglaciated area; spur with limestone rubble, Carex scirpoidea
 community. Voucher Numbers: 29155-29194.

	Cover %		Cover %
Bare rock/gravel	20	<u>Bryophytes</u>	
Soil	4		
Duff/peat	1	Bryum caespiticium	+
Lichens	17	Ceratodon purpureus	+
Bryophytes	3	Distichium capillaceum	+
Herbaceous vegetation	36	Ditrichum flexicaule	+
Woody vegetation	19	Hypnum bambergeri	+
		Oncophorus wahlenbergii	+
<u>Lichens</u>		Rhytidium rugosum	+
Cetraria cucullata	3	Tortella fragilis	+
C. nivalis	3	T. tortuosa	+
Thamnolia subuliformis	3	<u>Herbaceous Plants</u>	
Asahinea chrysantha	2		
Alectoria nigricans	+	Carex scirpoidea	30
A. ochroleuca	+	Silene acaulis ssp. acaulis	2
Buellia papillata	+	Oxytropis campestris ssp. jordalii	1
Cetraria islandica	+	Androsace chamaejasme ssp.	
C. laevigata	+	lehmanniana	+
C. richardsonii	+	Carex misandra	+
C. tilesii	+	Castilleja hyperborea	+
Cladonia mitis	+	Draba nivalis	+
C. rangiferina	+	Parrya nudicaulis ssp.	
Cladonia pocillum	+	septentrionalis	+
C. pyxidata	+	Pedicularis kanei ssp. kanei	+
Dactylina arctica PD+	+	Potentilla uniflora	+
D. ramulosa PD+	+	Saxifraga oppositifolia	+
Ochrolechia upsaliensis	+	Thalictrum alpinum	+
Peltigera sp.	+		
Pertusaria bryontha	+	<u>Shrubs and Trees</u>	
P. dactylina	+		
Polyblastia intercedens	+	Dryas sp.	8
		Cassiope tetragona ssp. tetragona	7
		Arctostaphylos rubra	2
		Betula nana ssp. exilis	+
		Rhododendron lapponicum	+
		Vaccinium uliginosum ssp.	
		microphyllum	+

Site: 7. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4300 ft. Aspect: 0-10° 65° 26'N, 134° 29'W.
 Habitat: unglaciated area; ridge with loess and rubble of limestone and dolomite, lichen - Carex nardina community. Voucher Numbers: 29195-29238.

	Cover %		Cover %
Bare rock/gravel	60	<u>Bryophytes</u>	
Soil	3		
Duff/peat	-	Distichium sp.	+
Lichens	10	Ditrichum flexicaule	+
Bryophytes	3	Hypnum bambergeri	+
Herbaceous vegetation	15	H. vaucheri	+
Woody vegetation	9	Tortella fragilis	+
			.
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Asahinea chrysantha	2	Carex nardina	9
Cetraria tilesii	2	C. misandra	1
Thamnolia subuliformis	2	Silene acaulis ssp. acaulis	1
Cetraria nivalis	1	Androsace chamaejasme ssp.	
Dactylina arctica PD+	1	lehmanniana	+
Alectoria ochroleuca	+	Anemone parviflora	+
Arthoraphis citrinella var.		Astragalus umbellatus	+
alpina	+	Draba nivalis	+
Cladonia pocillum	+	Oxytropis campestris ssp. jordalii	+
C. pyxidata	+	Pedicularis capitata	+
Collema auriculatum	+	P. kanei ssp. kanei	+
C. tenax	+	Saxifraga oppositifolia	+
Cornicularia aculeata	+	Senecio resedifolius	+
Dactylina ramulosa	+	Thalictrum alpinum	+
Dermatocarpon hepaticum	+	Woodsia glabella	+
Lecanora epibryon	+		
L. verrucosa	+	<u>Shrubs and Trees</u>	
Lecidea assimilata	+		
L. decipiens	+	Dryas integrifolia ssp.	5
L. lapicida	+	integrifolia	
L. rubiformis	+	Cassiope tetragona ssp. tetragona	2
Ochrolechia upsaliensis	+	Salix reticulata ssp. reticulata	1
Rhizocarpon chioneum	+	Vaccinium uliginosum ssp.	
Rinodina roscida	+	microphyllum	1
Solorina baspora	+	Salix glauca ssp. acutifolia	+
Staurothele sp.	+		
S. catalepta	+		

Site: 8. Location: YUKON, Peel River Watershed, Knorr Range.
 Date: July 1. Elevation: 4300 ft. Aspect: 30° S. 65° 26' N, 134° 29' W.
 Habitat: unglaciated area; scree slope with partially dolomitized
 limestone, Lecanora candida community. Voucher Numbers: 29239-29276.

	Cover %		Cover %
Bare rock/gravel	82	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Ditrichum flexicaule	+
Lichens	11	Hypnum vaucheri	+
Bryophytes	1	Mnium orthorrhynchum	+
Herbaceous vegetation	3	Tortella fragilis	+
Woody vegetation	1	T. tortuosa	+
		Tortula ruralis	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Lecanora candida	10	Carex nardina	1
Asahinea chrysantha	+	Androsace chamaejasme ssp.	
Caloplaca stillicidiorum	+	lehmanniana	+
Cetraria nivalis	+	Cerastium beeringianum ssp.	
C. tilesii	+	beeringianum	+
Collema auriculatum	+	Cystopteris fragilis	+
Lecanora epibryon	+	Draba nivalis	+
L. verrucosa	+	Festuca baffinensis	+
Lecidea assimilata	+	Melandrium apetalum ssp. arcticum	+
L. lapicida	+	Minuartia arctica	+
L. marginata	+	M. rubella	+
L. rubiformis	+	Oxytropis campestris ssp. jordalii	+
Ochrolechia upsaliensis	+	Parrya nudicaulis ssp.	
Pertusaria bryontha	+	septentrionalis	+
Solorina bispora	+	Potentilla uniflora	+
Thamnia subuliformis	+	Saxifraga oppositifolia	+
Verrucaria muralis	+	Smelowskia borealis	+
		<u>Shrubs and Trees</u>	
		Dryas sp.	+

Site: 9. Location: YUKON, Peel River Watershed, Knorr Range. Date: July 1. Elevation: 4300 ft. Aspect: 0°. 65°26'N, 134°29'W. Habitat: unglaciated area; col with dolomite and shaly dolomite, Dryas octopetala - Cassiope tetragona community. Voucher Numbers: 29277-29339.

	Cover %		Cover %
Bare rock/gravel	51	<i>Stereocaulon alpinum</i>	+
Soil	5	<i>Verrucaria muralis</i>	+
Duff/peat	-	<i>V. virens</i>	+
Lichens	8		
Bryophytes	2	<u>Bryophytes</u>	
Herbaceous vegetation	8		
Woody vegetation	26	<i>Abietinella abietina</i>	+
		<i>Desmatodon obtusifolius</i>	+
<u>Lichens</u>		<i>Distichium</i> sp.	+
		<i>Hypnum bambergeri</i>	+
<i>Cetraria nivalis</i>	2	<i>Oncophorus wahlenbergii</i>	+
<i>Thamnolia subuliformis</i>	2	<i>Rhytidium rugosum</i>	+
<i>Cetraria tilesii</i>	1	<i>Tortella fragilis</i>	+
<i>Rhizocarpon chioneum</i>	1		
<i>Alectoria nigricans</i>	+	<u>Herbaceous Plants</u>	
<i>A. ochroleuca</i>	+		
<i>Asahinea chrysantha</i>	+	<i>Lupinus arcticus</i>	2
<i>Buellia aethalea</i>	+	<i>Oxytropis nigrescens</i> ssp.	
<i>B. papillata</i>	+	<i>bryophila</i>	2
<i>Cetraria cucullata</i>	+	<i>Androsace chamaejasme</i> ssp.	
<i>C. islandica</i>	+	<i>lehmanniana</i>	+
<i>C. laevigata</i>	+	<i>Anemone parviflora</i>	+
<i>C. richardsonii</i>	+	<i>Astragalus umbellatus</i>	+
<i>Cladonia arbuscula</i> ssp.		<i>Carex misandra</i>	+
<i>beringiana</i>	+	<i>Draba nivalis</i>	+
<i>C. mitis</i>	+	<i>Geum glaciale</i>	+
<i>Cladonia coccifera</i>	+	<i>Minuartia arctica</i>	+
<i>C. gracilis</i> var. <i>dilatata</i>	+	<i>Parrya nudicaulis</i> ssp.	
<i>Collema auriculatum</i>	+	<i>septentrionalis</i>	+
<i>C. polycarpon</i>	+	<i>Pedicularis capitata</i>	+
<i>Cornicularia divergens</i>	+	<i>P. kanei</i> ssp. <i>kanei</i>	+
<i>Dactylina arctica</i> PD+	+	<i>Potentilla uniflora</i>	+
<i>D. ramulosa</i> PD+	+	<i>Saxifraga oppositifolia</i>	+
<i>Lecanora caesiocinerea</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>L. epibryon</i>	+	<i>Thalictrum alpinum</i>	+
<i>L. verrucosa</i>	+	<i>Tofieldia coccinea</i>	+
<i>Lecidea aenea</i>	+		
<i>L. dicksonii</i>	+	<u>Shrubs and Trees</u>	
<i>L. flavocaerulescens</i>	+		
<i>L. lapicida</i>	+	<i>Cassiope tetragona</i> ssp. <i>tetragona</i>	10
<i>L. marginata</i>	+	<i>Dryas octopetala</i> ssp. <i>alaskensis</i>	10
<i>Ochrolechia upsaliensis</i>	+	<i>Salix reticulata</i> ssp. <i>reticulata</i>	3
<i>Pertusaria dactylina</i>	+	<i>Vaccinium uliginosum</i> ssp. <i>alpinum</i>	3
<i>Rhizocarpon concentricum</i>	+	<i>Andromeda polifolia</i>	+
<i>R. geographicum</i>	+		
<i>Rinodina roscida</i>	+		
<i>Sporastatia testudinea</i>	+		

Site: 10. Location: YUKON, Peel River Watershed, Knorr Range. Date: July 1. Elevation: 4300 ft. Aspect: 0°. 65°26'N, 134°29'W. Habitat: unglaciated area; summit ridge with limestone and dolomite rubble, Dryas sp. - Carex misandra community. Voucher Numbers: 29340-29399.

	Cover %		Cover %
Bare rock/gravel	50	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	<i>Abietinella abietina</i>	+
Lichens	14	<i>Distichium</i> sp.	+
Bryophytes	2	<i>Ditrichum flexicaule</i>	+
Herbaceous vegetation	18	<i>Hylocomium splendens</i>	+
Woody vegetation	16	<i>Hypnum procerrimum</i>	+
		<i>H. vaucheri</i>	+
<u>Lichens</u>		<i>Plagiochila asplenioides</i>	+
		<i>Pleurozium schreberi</i>	+
<i>Cetraria tilesii</i>	3	<i>Rhytidium rugosum</i>	+
<i>C. cucullata</i>	2	<i>Tetraplodon mnioides</i>	+
<i>C. nivalis</i>	2	<i>Tomenthypnum nitens</i>	+
<i>Rhizocarpon chioneum</i>	2	<i>Tortella fragilis</i>	+
<i>Thamnolia subuliformis</i>	2	<i>T. tortuosa</i>	+
<i>Alectoria nigricans</i>	+	<i>Tortula ruralis</i>	+
<i>A. ochroleuca</i>	+		
<i>Buellia papillata</i>	+	<u>Herbaceous Plants</u>	
<i>Candelariella aurella</i>	+		
<i>Cetraria islandica</i>	+	<i>Carex misandra</i>	10
<i>C. laevigata</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	2
<i>Cladonia gracilis</i> var. <i>dilatata</i>	+	<i>Oxytropis nigrescens</i> ssp.	
<i>C. pocillum</i>	+	<i>bryophila</i>	1
<i>C. pyxidata</i>	+	<i>Saxifraga oppositifolia</i>	1
<i>Collema polycarpon</i>	+	<i>Androsace chamaejasme</i> ssp.	
<i>Cornicularia aculeata</i>	+	<i>lehmanniana</i>	+
<i>Dactylina ramulosa</i> PD+	+	<i>Anemone parviflora</i>	+
<i>Lecanora epibryon</i>	+	<i>Draba nivalis</i>	+
<i>L. verrucosa</i>	+	<i>Oxytropis campestris</i> ssp. <i>jordalii</i>	+
<i>Lecidea assimilata</i>	+	<i>Parrya nudicaulis</i> ssp.	-
<i>L. glomerulosa</i>	+	<i>septentrionalis</i>	+
<i>L. lapicida</i>	+	<i>Pedicularis capitata</i>	+
<i>Ochrolechia upsaliensis</i>	+	<i>Potentilla uniflora</i>	+
<i>Peltigera</i> sp.	+	<i>Saxifraga reflexa</i>	+
<i>Pertusaria dactylina</i>	+	<i>S. tricuspidata</i>	+
<i>P. glomerata</i>	+	<i>Senecio resedifolius</i>	+
<i>Physconia muscigena</i>	+	<i>Stellaria edwardsii</i>	+
<i>Placynthium nigrum</i>	+	<i>Thalictrum alpinum</i>	+
<i>Protoblastenia rupestris</i>	+		
<i>Rhizocarpon umbilicatum</i>	+	<u>Shrubs and Trees</u>	
<i>Solorina bispora</i>	+		
<i>Verrucaria muralis</i>	+	<i>Dryas</i> sp.	10
		<i>Cassiope tetragona</i> ssp. <i>tetragona</i>	3
		<i>Salix rotundifolia</i>	2
		<i>Andromeda polifolia</i>	+
		<i>Vaccinium uliginosum</i> ssp.	
		<i>microphyllum</i>	+

Site: 11. Location: YUKON, Peel River Watershed, Knorr Range. Date: July 1. Elevation: 4250 ft. Aspect: 0-5°. 65°26'N, 134°29'W. Habitat: unglaciated area; col with partially dolomitized limestone, dolomite and shale; lichen community. Voucher Numbers: 29400-29469.

	Cover %		Cover %
Bare rock/gravel	65	<u>Bryophytes</u>	
Soil	5		
Duff/peat	-	<i>Campylium stellatum</i>	+
Lichens	15	<i>Cirriphyllum cirrosum</i>	+
Bryophytes	1	<i>Distichium</i> sp.	+
Herbaceous vegetation	7	<i>Ditrichum flexicaule</i>	+
Woody vegetation	7	<i>Hypnum bambergeri</i>	+
		<i>Rhacomitrium lanuginosum</i>	+
<u>Lichens</u>		<i>Rhytidium rugosum</i>	+
		<i>Timmia austriaca</i>	+
<i>Rhizocarpon chioneum</i>	6	<i>Tortella fragilis</i>	+
<i>Lecidea lapicida</i>	3	<i>T. tortuosa</i>	+
<i>Cetraria nivalis</i>	1	<i>Tortula ruralis</i>	+
<i>C. tilesii</i>	1		
<i>Parmelia centrifuga</i>	1	<u>Herbaceous Plants</u>	
<i>Rhizocarpon geographicum</i>	1		
<i>Thamnolia subuliformis</i>	1	<i>Carex nardina</i>	4
<i>Alectoria nigricans</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
<i>A. ochroleuca</i>	+	<i>Androsace chamaejasme</i> ssp.	
<i>Asahinea chrysantha</i>	+	<i>lehmanniana</i>	+
<i>Cetraria cucullata</i>	+	<i>Anemone drummondii</i>	+
<i>C. islandica</i>	+	<i>Astragalus umbellatus</i>	+
<i>C. laevigata</i>	+	<i>Cardamine purpurea</i>	+
<i>Cladina alpestris</i>	+	<i>Draba nivalis</i>	+
<i>Cladonia pocillum</i>	+	<i>Geum glaciale</i>	+
<i>C. pyxidata</i>	+	<i>Lupinus arcticus</i>	+
<i>Collema auriculatum</i>	+	<i>Minuartia arctica</i>	+
<i>Cornicularia aculeata</i>	+	<i>Oxytropis campestris</i> ssp. <i>jordalii</i>	+
<i>C. divergens</i>	+	<i>O. nigrescens</i> ssp. <i>bryophila</i>	+
<i>Dactylina arctica</i> PD-	+	<i>Parrya nudicaulis</i> ssp.	
<i>Dermatocarpon hepaticum</i>	+	<i>septentrionalis</i>	+
<i>Lecanora caesiocinerea</i>	+	<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>L. candida</i>	+	<i>Potentilla uniflora</i>	+
<i>L. epibryon</i>	+	<i>Thalictrum alpinum</i>	+
<i>L. polytropa</i>	+		
<i>L. verrucosa</i>	+	<u>Shrubs and Trees</u>	
<i>Lecidea marginata</i>	+		
<i>Lecidella stigmatea</i>	+	<i>Dryas octopetala</i> ssp. <i>alaxensis</i>	3
<i>Ochrolechia frigida</i>	+	<i>Cassiope tetragona</i> ssp. <i>tetragona</i>	1
<i>O. upsaliensis</i>	+	<i>Salix reticulata</i> ssp. <i>reticulata</i>	1
<i>Pertusaria dactylina</i>	+	<i>S. rotundifolia</i>	1
<i>P. glomerata</i>	+	<i>Rhododendron lapponicum</i>	+
<i>Placynthium nigrum</i>	+	<i>Vaccinium uliginosum</i> ssp. <i>alpinum</i>	+
<i>Protoblastenia rupestris</i>	+		
<i>Rhizocarpon chioneum</i>	+		
<i>Sporastatia testudinea</i>	+		
<i>Verrucaria muralis</i>	+		

Site: 12. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1300 ft. Aspect: 0°. 66°11'N, 134°17'W.
 Habitat: glaciated area; peat plateau, Cladina alpestris - Sphagnum fuscum -
Picea mariana community. Voucher Numbers: 29470-29506.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Sphagnum fuscum	23
Lichens	48	S. lindbergii	2
Bryophytes	27	Polytrichum juniperinum	+
Herbaceous vegetation	4		
Woody vegetation	21	<u>Herbaceous Plants</u>	
<u>Lichens</u>		Rubus chamaemorus	3
Cladina alpestris	26	Eriophorum vaginatum ssp. vaginatum	+
C. rangiferina	10		
Cetraria nivalis	2	<u>Shrubs and Trees</u>	
Cladonia amaurocraea	2	Picea mariana	10
Cetraria laevigata	1	Ledum palustre ssp. decumbens	6
Cladonia gonecha	1	L. palustre ssp. groenlandicum	2
C. gracilis var. dilatata	1	Andromeda polifolia	1
Alectoria glabra	+	Larix laricina	1
A. nigricans	+	Vaccinium vitis-idaea ssp. minus	1
Cetraria cucullata	+		
Cladonia mitis	+		
Cladonia cenotea	+		
C. coccifera	+		
C. cornuta	+		
C. grayi	+		
C. pleurota	+		
Evernia mesomorpha	+		
Hypogymnia bitteri	+		
H. physodes	+		
Icmadophila ericetorum	+		
Mycoblastus sanguinarius	+		
Parmeliopsis ambigua	+		
Usnea glabrescens	+		

Site: 13. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1300 ft. Aspect: 0°. 66° 12' N, 134° 13' W.
 Habitat: glaciated area; peat plateau, Picea mariana - Cladina alpestris
 community. Voucher Numbers: 29507-29543.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Sphagnum fuscum	8
Lichens	34	Hylocomium splendens	2
Bryophytes	12	Mylia anomala	+
Herbaceous vegetation	4	Pleurozium schreberi	+
Woody vegetation	50	Ptilidium ciliare	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
Cladina alpestris	13	Rubus chamaemorus	2
Nephroma arcticum	9	Equisetum silvaticum	1
Cladonia amaurocraea	4	Petasites hyperboreus	1
Cladina rangiferina	2		
Cetraria laevigata	1	<u>Shrubs and Trees</u>	
Peltigera aphthosa	1		
Alectoria glabra	+	Picea mariana	30
Cetraria cucullata	+	Vaccinium vitis-idaea ssp.	
C. pinastri	+	minus	11
Cladina arbuscula ssp.		Ledum palustre ssp. decumbens	5
beringiana	+	Betula nana ssp. exilis	1
Cladina deformis	+	Empetrum nigrum ssp.	
C. gracilis var. dilatata	+	hermaphroditum	1
Evernia mesomorpha	+	Larix laricina	1
Hypogymnia bitteri	+	Rosa acicularis	1
H. physodes	+		
Lecanora coilocarpa	+		
Lecidea glomerulosa	+		
Mycoblastus sanguinarius	+		
Parmeliopsis aleurites	+		
P. ambigua	+		
Usnea glabrescens	+		

Site: 14. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1300 ft. Aspect: 0°. 66°12'N, 134°13'W.
 Habitat: glaciated area; peat plateau, Cladina alpestris - Picea mariana community. Voucher Numbers: 29544-26572.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Sphagnum nemoreum	2
Lichens	69	Anastrophyllum minutum	+
Bryophytes	3	Dicranum elongatum	+
Herbaceous vegetation	2	D. fuscescens	+
Woody vegetation	26	D. undulatum	+
		Pleurozium schreberi	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Cladina alpestris	49		
C. rangiferina	7	Rubus chamaemorus	1
Nephroma arcticum	4	Equisetum silvaticum	+
Cladonia crispata	2	Petasites hyperboreus	+
C. gonecha	1		
Alectoria glabra	+	<u>Shrubs and Trees</u>	
Cetraria laevigata	+		
C. pinastri	+	Picea mariana	15
Cladina arbuscula ssp. beringiana	+	Ledum palustre ssp. groenlandicum	4
C. mitis	+	L. palustre ssp. decumbens	3
Cladonia amaurocraea	+	Vaccinium vitis-idaea ssp. minus	3
C. chlorophaea	+	Betula nana ssp. exilis	+
C. coccifera	+		
C. cornuta	+		
C. grayi	+		
Evernia mesomorpha	+		
Hypogymnia bitteri	+		
H. physodes	+		
Mycoblastus sanguinarius	+		
Parmeliopsis ambigua	+		
Peltigera malacea	+		
Stereocaulon alpinum	+		

Site: 15. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1300 ft. Aspect: 0°, 66° 12' N, 134° 13' W.
 Habitat: glaciated area; peat plateau, Cladina alpestris - Picea mariana community. Voucher Numbers: 29573-29609.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	<u>Hylocomium splendens</u>	5
Lichens	50	<u>Dicranum undulatum</u>	2
Bryophytes	10	<u>Sphagnum rubellum</u>	2
Herbaceous vegetation	3	<u>Dicranum fuscescens</u>	1
Woody vegetation	27	<u>Anastrophyllum minutum</u>	+
		<u>Aulacomnium palustre</u>	+
		<u>Pleurozium schreberi</u>	+
<u>Lichens</u>			
<u>Cladina alpestris</u>	35	<u>Herbaceous Plants</u>	
<u>C. rangiferina</u>	5		
<u>Nephroma arcticum</u>	3	<u>Rubus chamaemorus</u>	1
<u>Peltigera aphthosa</u>	1	<u>Equisetum silvaticum</u>	+
<u>P. canina</u>	1	<u>Petasites hyperboreus</u>	+
<u>Alectoria glabra</u>	+	<u>Pyrola secunda ssp. obtusata</u>	+
<u>Cetraria cucullata</u>	+		
<u>C. nivalis</u>	+	<u>Shrubs and Trees</u>	
<u>C. pinastri</u>	+		
<u>Cladina arbuscula ssp. beringiana</u>	+	<u>Picea mariana</u>	20
<u>C. mitis</u>	+	<u>Vaccinium vitis-idaea ssp. minus</u>	6
<u>Cladonia amaurocraea</u>	+	<u>Salix glauca ssp. acutifolia</u>	3
<u>C. cornuta</u>	+	<u>Betula nana ssp. exilis</u>	2
<u>C. deformis</u>	+	<u>Ledum palustre ssp. decumbens</u>	2
<u>Evernia mesomorpha</u>	+	<u>L. palustre ssp. groenlandicum</u>	2
<u>Hypogymnia bitteri</u>	+	<u>Empetrum nigrum ssp. hermaphroditum</u>	1
<u>H. physodes</u>	+	<u>Rosa acicularis</u>	+
<u>Lecanora allophana</u>	+	<u>Vaccinium uliginosum ssp. alpinum</u>	+
<u>Mycoblastus sanguinarius</u>	+		
<u>Parmeliopsis aleurites</u>	+		
<u>P. ambigua</u>	+		
<u>Usnea glabrescens</u>	+		

Site: 16. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1300 ft. Aspect: 0°. 66°12'N, 134°13'W.
 Habitat: glaciated area; peat plateau, Cladina alpestris community.
 Voucher Numbers: 29610-29657.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Sphagnum fuscum	2
Lichens	62	S. nemoreum	2
Bryophytes	6	Anastrophyllum minutum	+
Herbaceous vegetation	2	Dicranum elongatum	+
Woody vegetation	30	D. fuscescens	+
		D. undulatum	+
<u>Lichens</u>		Pleurozium schreberi	+
Cladina alpestris	42	Polytrichum juniperinum var. gracilius	+
C. rangiferina	5		
Nephroma arcticum	3	<u>Herbaceous Plants</u>	
Cetraria laevigata	1		
Cladonia amaurocraea	1	Equisetum silvaticum	+
C. gonecha	1	Petasites frigidus	+
Peltigera aphthosa	1	Pinguicula vulgaris ssp. vulgaris	+
P. horizontalis	1	Rubus chamaemorus	+
Alectoria glabra	+		
Cetraria pinastri	+	<u>Shrubs and Trees</u>	
Cladonia arbuscula ssp. beringiana	+	Picea mariana	15
C. mitis	+	Ledum palustre ssp. decumbens	5
Cladonia cenotea	+	Vaccinium vitis-idaea ssp. minus	4
C. cornuta	+	Betula nana ssp. exilis	1
C. crispata	+	Empetrum nigrum ssp. hermaphroditum	1
C. gracilis var. dilatata	+	Ledum palustre ssp. groenlandicum	1
C. phyllophora	+	Rosa acicularis	1
C. pleurota	+	Andromeda polifolia	+
C. uncialis	+	Oxycoccus microcarpus	+
Evernia mesomorpha	+	Salix glauca ssp. acutifolia	+
Hypogymnia bitteri	+	Spiraea beauverdiana	+
H. physodes	+		
Lecanora allophana	+		
Mycoblastus sanguinarius	+		
Parmelia septentrionalis	+		
Parmeliopsis aleurites	+		
P. ambigua	+		

Site: 17. Location: YUKON, Peel River Watershed, Peel River Lowlands.
 Date: July 2. Elevation: 1350 ft. Aspect: 0°. 66° 33'N, 134° 33'W.
 Habitat: glaciated area; peat plateau, burned area with small water-filled depressions, Rubus chamaemorus - Ledum palustre ssp. decumbens - Polytrichum juniperinum community. Voucher Numbers: 29658-29670.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Burned/peat	47	Polytrichum juniperinum	10
Lichens	2	Ceratodon purpureus	4
Bryophytes	16	Sphagnum angustifolium	1
Herbaceous vegetation	21	S. fuscum	1
Woody vegetation	16		
		<u>Herbaceous Plants</u>	
Lichens		Rubus chamaemorus	20
Cladonia gonecha	1	Pedicularis labradorica	+
Icmadophila ericetorum	1		
Cladonia amaurocraea	+	<u>Shrubs and Trees</u>	
C. botrytes	+	Ledum palustre ssp. decumbens	10
C. cenotea	+	Betula nana ssp. exilis	2
C. coccifera	+	Vaccinium vitis-idaea ssp. minus	2
C. coniocraea	+	Ledum palustre ssp.	
C. cornuta	+	groenlandicum	1
C. gracilis var. dilatata	+	Oxycoccus microcarpus	+
C. gracilis var. gracilis	+		
C. metacorallifera	+		

Site: 18. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4600 ft. Aspect: $0-5^{\circ}$. $65^{\circ}15'N$, $135^{\circ}50'W$. Habitat: unglaciated area; col with limestone rubble. Voucher Numbers: 29679-29742.

	Cover %		Cover %
Bare rock/gravel	76	<u>Bryophytes</u>	
Soil	4		
Duff/peat	-	Bryum wrightii	+
Lichens	8	Ceratodon purpureus	+
Bryophytes	2	Dicranum fuscescens	+
Herbaceous vegetation	8	Ditrichum flexicaule	+
Woody vegetation	2	Encalypta ciliata	+
		Hypnum bambergeri	+
		Pohlia nutans	+
<u>Algae.</u>		Polytrichum juniperinum	+
Nostoc sp.	+	Sphagnum fallax	+
		S. magellanicum	+
<u>Lichens</u>		Tortella tortuosa	+
Cetraria tilesii	2	<u>Herbaceous Plants</u>	
Rhizocarpon chioneum	1		
Thamnia subuliformis	1	Carex misandra	2
Agyrophora rigida	+	C. scirpoidea	2
Alectoria nigricans	+	C. glacialis	1
A. ochroleuca	+	Androsace chamaejasme ssp.	
Asahinea chrysantha	+	lehmanniana	+
Cetraria cucullata	+	Cardamine purpurea	+
C. islandica	+	Chrysanthemum integrifolium	+
C. nivalis	+	Cystopteris fragilis	+
Cladina aberrans	+	Draba macrocarpon	+
C. alpestris	+	Lesquerella calderi	+
Cladonia cenotea	+	Minuartia arctica	+
C. cornuta	+	Oxytropis campestris ssp.	
C. deformis	+	jordalii	+
C. gonecha	+	Papaver walpolei	+
C. pocillum	+	Parrya nudicaulis ssp.	
Collema polycarpon	+	septentrionalis	+
Cornicularia divergens	+	Pedicularis capitata	+
Dactylina arctica PD+	+	P. kanei ssp. kanei	+
D. arctica PD-	+	Phlox sibirica	+
D. ramulosa PD+	+	Saxifraga oppositifolia	+
Haematomma lapponicum	+	Silene acaulis ssp. acaulis	+
Lecanora epibryon	+		
L. verrucosa	+	<u>Shrubs and Trees</u>	
Lecidea assimilata	+		
Ochrolechia frigida	+	Dryas octopetala ssp.	
Pertusaria dactylina	+	alaskensis	1
Placynthium nigrum	+	Cassiope tetragona ssp.	+
Polyblastia intercedens	+	tetragona	+
Rhizocarpon chioneum	+		
Rinodina roscida	+		
Solorina bispora	+		

Site: 19. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4800 ft. Aspect: 10-30°W. 65°15'N, 135°50'W. Habitat: unglaciated area; scree with limestone and quartzite; lichen community. Voucher Numbers: 29743-29785.

	Cover %		Cover %
Bare rock/gravel	17	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Ditrichum flexicaule	+
Lichens	13	Grimmia affinis	+
Bryophytes	2	Hypnum bambergeri	+
Herbaceous vegetation	6	H. bridelianum	+
Woody vegetation	2	Pohlia cruda	+
		Racomitrium lanuginosum	+
<u>Lichens</u>		Tomenthypnum nitens	+
Lecidea lapicida	3	Tortella fragilis	+
Rhizocarpon crystalligenum	3	T. tortuosa	+
Thamnolia subuliformis	2	<u>Herbaceous Plants</u>	
Agyrophora rigida	1		
Cetraria nivalis	1	Carex misandra	3
C. tilesii	1	Androsace chamaejasme ssp.	
Alectoria nigricans	+	lehmanniana	+
A. ochroleuca	+	Chrysanthemum integrifolium	+
Buellia papillata	+	Cystopteris fragilis	+
Cetraria cucullata	+	Draba nivalis	+
C. islandica	+	Minuartia arctica	+
Cladonia pocillum	+	Pedicularis capitata	+
Collema polycarpon	+	Saxifraga oppositifolia	+
Dactylina ramulosa PD+	+	Silene acaulis ssp. acaulis	+
Haematomma lapponicum	+		
Lecanora polytropa	+	<u>Shrubs and Trees</u>	
Lecidea armeniaca	+		
L. glomerulosa	+	Dryas integrifolia ssp.	
L. rubiformis	+	integrifolia	2
Parmelia alpicola	+		
Pertusaria dactylina	+		
Polyblastia intercedens	+		
Rhizocarpon geographicum	+		
Sporastatia testudinea	+		
Verrucaria muralis	+		

Site: 20. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 5000 ft. Aspect: 0-5°. 65°15'N, 135°50'W. Habitat: unglaciated area; summit with rich organic soil and limestone rubble, Carex misandra - C. scirpoidea community. Voucher Numbers: 29786-29826.

	Cover %		Cover %
Bare rock/gravel	70	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Racomitrium lanuginosum	1
Lichens	8	Brachythecium turgidum	+
Bryophytes	4	Bryum wrightii	+
Herbaceous vegetation	11	Ceratodon purpureus	+
Woody vegetation	6	Dicranum elongatum	+
		D. fuscescens	+
<u>Lichens</u>		Ditrichum flexicaule	+
		Hypnum bambergeri	+
Cetraria tilesii	2	Polytrichum juniperinum	+
C. nivalis	1	Ptilidium ciliare	+
Thamnolia subuliformis	1	Tomenthypnum nitens	+
Alectoria nigricans	+	Tortella fragilis	+
Baeomyces carneus	+	T. tortuosa	+
Cetraria islandica	+	Tortula ruralis	+
Cladonia pocillum	+		
Collema auriculatum	+	<u>Herbaceous Plants</u>	
Dactylina arctica PD+	+		
D. ramulosa PD+	+	Carex misandra	5
Lecanora epibryon	+	C. scirpoidea	5
L. verrucosa	+	Androsace chamaejasme ssp.	
Lecidea pallida	+	lehmanniana	+
Lecidella stigmatea	+	Chrysanthemum integrifolium	+
Peltigera aphthosa	+	Saxifraga oppositifolia	+
P. horizontalis	+	Silene acaulis ssp. acaulis	+
Physconia muscigena	+		
Protoblastenia rupestris	+	<u>Shrubs and Trees</u>	
Rinodina roscida	+		
Verrucaria muralis	+	Cassiope tetragona ssp.	
		tetragona	3
		Dryas octopetala ssp.	
		alaskensis	2
		Vaccinium uliginosum ssp.	
		microphyllum	+

Site: 21. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4600 ft. Aspect: 0-10° NW. 65° 15' N, 135° 50' W. Habitat: unglaciated area; spur with limestone and chert rubble slabs; Cetraria tilesii - Carex misandra community. Voucher Numbers: 29827-29871.

	Cover %		Cover %
Bare rock/gravel	80	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	<i>Cirriphyllum cirrosum</i>	+
Lichens	8	<i>Ditrichum flexicaule</i>	+
Bryophytes	1	<i>Hypnum bambergeri</i>	+
Herbaceous vegetation	6	<i>Myurella julacea</i>	+
Woody vegetation	4	<i>Rhacomitrium lanuginosum</i>	+
		<i>Tortella tortuosa</i>	+
		<u>Lichens</u>	
		<u>Herbaceous Plants</u>	
<i>Cetraria tilesii</i>	3	<i>Carex misandra</i>	3
<i>C. nivalis</i>	1	<i>Lesquerella calderi</i>	+
<i>Thamnomia subuliformis</i>	1	<i>Minuartia arctica</i>	+
<i>Agyrophora rigida</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>Alectoria chalybeiformis</i>	+	<i>jordalii</i>	+
<i>A. nigricans</i>		<i>Parrya nudicaulis</i> ssp.	
<i>A. ochroleuca</i>	+	<i>septentrionalis</i>	+
<i>Cetraria commixta</i>	+	<i>Pedicularis capitata</i>	+
<i>C. islandica</i>	+	<i>P. kanei</i> ssp. <i>kanei</i>	+
<i>Cladonia amaurocraea</i>	+	<i>Phlox sibirica</i>	+
<i>C. coccifera</i>	+	<i>Senecio resedifolius</i>	+
<i>C. pocillum</i>	+	<i>Thalictrum alpinum</i>	+
<i>Cornicularia aculeata</i>	+		
<i>C. divergens</i>	+	<u>Shrubs and Trees</u>	
<i>Dactylina arctica</i> PD+	+	<i>Dryas</i> sp.	2
<i>D. ramulosa</i> PD+	+	<i>Cassiope tetragona</i> ssp.	
<i>Dermatocarpon hepaticum</i>	+	<i>tetragona</i>	1
<i>Lecanora epibryon</i>	+	<i>Salix reticulata</i> ssp.	
<i>Lecidea assimilata</i>	+	<i>reticulata</i>	+
<i>L. decipiens</i>	+		
<i>L. glomerulosa</i>	+		
<i>Ochrolechia upsaliensis</i>	+		
<i>Pertusaria dactylina</i>	+		
<i>Rhizocarpon chioneum</i>	+		
<i>R. crystalligenum</i>	+		
<i>R. eupetraeoides</i>	+		
<i>R. geographicum</i>	+		
<i>Solorina bispora</i>	+		
<i>Xanthoria elegans</i>	+		

Site: 23. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4600 ft. Aspect: 0-10°. 65° 15' N, 135° 50' W. Habitat: unglaciated area; col with limestone rubble. Voucher Numbers: 29912-29940.

	Cover %		Cover %
Bare rock/gravel	77	<u>Bryophytes</u>	
Soil	5		
Duff/peat	-	Distichium sp.	+
Lichens	5	Ditrichum flexicaule	+
Bryophytes	2	Encalypta sp.	+
Herbaceous vegetation	5	Hypnum bambergeri	+
Woody vegetation	6	Tortella fragilis	+
		T. tortuosa	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Cetraria tilesii	2		
C. nivalis	1	Carex misandra	3
Thamnolia subuliformis	1	Chrysanthemum integrifolium	+
Buellia papillata	+	Lloydia serotina	+
Cetraria laevigata	+	Minuartia arctica	+
Cladonia pocillum	+	Oxytropis nigrescens ssp.	
Cornicularia aculeata	+	bryophila	+
Dactylina arctica PD+	+	Pedicularis kanei ssp. kanei	+
D. ramulosa PD+	+	Saxifraga oppositifolia	+
Lecanora epibryon	+	Silene acaulis ssp. acaulis	+
Lecidea assimilata	+		
Lecidella stigmatea	+	<u>Shrubs and Trees</u>	
Lepraria neglecta	+		
Rinodina roscida	+	Cassiope tetragona ssp.	
Solorina bispora	+	saximontana	3
Thrombium epigaeum	+	Dryas sp.	3
		Salix rotundifolia	+

Site: 24. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4600 ft. Aspect: 40-50° NE. 65° 15' N, 135° 50' W. Habitat: unglaciated area; limestone outcrop, Collema auriculatum - Grimmia atricha community. Voucher Numbers: 29941-29953.

	Cover %		Cover %
Bare rock/gravel	70	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	<i>Grimmia atricha</i>	5
Lichens	23	<i>Distichium</i> sp.	+
Bryophytes	5		
Herbaceous vegetation	1	<u>Herbaceous Plants</u>	
Woody vegetation	1		
		<i>Papaver walpolei</i>	+
<u>Algae</u>			
		<u>Shrubs and Trees</u>	
<i>Nostoc</i> sp.	+		
		<i>Dryas</i> sp.	+
<u>Lichens</u>			
<i>Collema auriculatum</i>	20		
<i>Rhizocarpon chioneum</i>	2		
<i>Buellia papillata</i>	+		
<i>Cetraria tilesii</i>	+		
<i>Lepraria membranacea</i>	+		
<i>Protoblastenia rupestris</i>	+		
<i>Rinodina roscida</i>	+		
<i>Solorina bispora</i>	+		
<i>Thamnomia subuliformis</i>	+		

Site: 25. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prong Creek and Forest Creek. Date: July 3. Elevation: 4600 ft. Aspect: 50°S. 65°15'N, 135°50'W. Habitat: unglaciated area; limestone scree. Voucher Numbers: 29954-29993.

	Cover %		Cover %
Bare rock/gravel	82	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Ditrichum flexicaule	+
Lichens	3	Hypnum bridelianum	+
Bryophytes	2	H. procerrimum	+
Herbaceous vegetation	8	Tortella fragilis	+
Woody vegetation	4	T. tortuosa	+
		<u>Lichens</u>	
		<u>Herbaceous Plants</u>	
Cetraria tilesii	1	Carex misandra	2
Lecidea lapidida	1	C. scirpoidea	1
Acarospora glaucocarpa	+	Androsace chamaejasme ssp.	
Buellia papillata	+	lehmanniana	+
Cetraria islandica	+	Anemone parviflora	+
Collema auriculatum	+	Cardamine purpurea	+
Dactylina arctica PD+	+	Chrysanthemum integrifolium	+
Lecanora epibryon	+	Lloydia serotina	+
L. verrucosa	+	Minuartia arctica	+
Mycoblastus sanguinarius	+	Papaver walpolei	+
Placynthium nigrum	+	Parrya nudicaulis ssp.	
Polyblastia intercedens	+	septentrionalis	+
Rinodina roscida	+	Pedicularis capitata	+
Solorina bispora	+	P. kanei ssp. kanei	+
S. saccata	+	Phlox sibirica	+
Thamnomia subuliformis	+	Saxifraga bronchialis ssp.	
Thrombium epigaeum	+	funstonii	+
		S. oppositifolia	+
		Senecio resedifolius	+
		Silene acaulis ssp. acaulis	+
		<u>Shrubs and Trees</u>	
		Dryas octopetala ssp.	
		alaskensis	3
		Salix reticulata ssp.	
		reticulata	+

Site: 26. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4200 ft. Aspect: 5-10° S. 65° 15' N, 135° 50' W. Habitat: unglaciated area; ridge with limestone rubble, Carex misandra - C. scirpoidea community. Voucher Numbers: 29994-30030.

	Cover %		Cover %
Bare rock/gravel	70	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	<i>Ditrichum flexicaule</i>	+
Lichens	10	<i>Drepanocladus uncinatus</i>	+
Bryophytes	1	<i>Fissidens osmundioides</i>	+
Herbaceous vegetation	15	<i>Grimmia trichophylla</i>	+
Woody vegetation	3	<i>Hypnum vaucheri</i>	+
		<i>Pohlia nutans</i>	+
<u>Lichens</u>		<i>Tortella tortuosa</i>	+
<i>Cetraria tilesii</i>	3	<u>Herbaceous Plants</u>	
<i>Asahinea chrysantha</i>	1		
<i>Cetraria nivalis</i>	1	<i>Carex misandra</i>	5
<i>Lecidea lapicida</i>	1	<i>C. scirpoidea</i>	5
<i>Thamnolia subuliformis</i>	1	<i>Chrysanthemum integrifolium</i>	1
<i>Alectoria nigricans</i>	+	<i>Androsace chamaejasme</i> ssp.	
<i>A. ochroleuca</i>	+	<i>lehmanniana</i>	+
<i>Cetraria laevigata</i>	+	<i>Castilleja hyperborea</i>	+
<i>Cladonia pocillum</i>	+	<i>Lesquerella calderi</i>	+
<i>Collema auriculatum</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>Dactylina arctica</i> PD-	+	<i>jordalii</i>	+
<i>Lecidea assimilata</i>	+	<i>Parrya nudicaulis</i> ssp.	
<i>L. pallida</i>	+	<i>septentrionalis</i>	+
<i>Lecidella stigmatea</i>	+	<i>Pedicularis capitata</i>	+
<i>Ochrolechia frigida</i>	+	<i>P. kanai</i> ssp. <i>kanai</i>	+
<i>Pertusaria dactylina</i>	+	<i>Phlox sibirica</i>	+
<i>Polyblastia intercedens</i>	+	<i>Polygonum viviparum</i>	+
<i>Protoblastenia rupestris</i>	+	<i>Saxifraga oppositifolia</i>	+
<i>Rhizocarpon chioneum</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>Xanthoria elegans</i>	+		
		<u>Shrubs and Trees</u>	
		<i>Dryas octopetala</i> ssp.	
		<i>alaskensis</i>	2
		<i>Cassiope tetragona</i>	+
		<i>Salix reticulata</i> ssp.	
		<i>reticulata</i>	+

Site: 27. Location: YUKON, Peel River Watershed, Wernecke Mountains, divide between Prongs Creek and Forest Creek. Date: July 3. Elevation: 4000 ft. Aspect: 5-10 S. 65 15'N, 135 50'W. Habitat: unglaciated area; ridge with limestone rubble. Voucher Numbers: 30031-30066.

	Cover %		Cover %
Bare rock/gravel	78	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Ditrichum flexicaule	+
Lichens	8	Hypnum vaucherii	+
Bryophytes	1	Rhytidium rugosum	+
Herbaceous vegetation	9	Tortella tortuosa	+
Woody vegetation	3		
		<u>Herbaceous Plants</u>	
<u>Lichens</u>		Carex misandra	2
Cetraria tilesii	3	C. scirpoidea	2
Lecidella stigmatea	2	C. glacialis	1
Cetraria nivalis	1	Androsace chamaejasme ssp.	
Thamnolia subuliformis	1	lehmanniana	+
Alectoria ochroleuca	+	Castilleja hyperborea	+
Asahinea chrysantha	+	Chrysanthemum integrifolium	+
Cetraria islandica	+	Draba sp.	+
C. laevigata	+	Hedysarum mackenzii	+
Cladonia pyxidata	+	Lesquerella calderi	+
Hypogymnia physodes	+	Minuartia arctica	+
Lecanora epibryon	+	Pedicularis kanei ssp. kanei	+
L. verrucosa	+	P. sudetica ssp. interior	+
Ochrolechia upsaliensis	+	Phlox sibirica	+
Protoblastenia rupestris	+	Saxifraga oppositifolia	+
Rinodina roscida	+	Silene acaulis ssp. acaulis	+
Solorina bispora	+	Thalictrum alpinum	+
		Woodsia glabella	+
		<u>Shrubs and Trees</u>	
		Dryas sp.	2
		Arctostaphylos rubra	+
		Cassiope tetragona	+
		Rhododendron lapponicum	+
		Salix myrtillofolia x	
		reticulata	+
		Vaccinium uliginosum ssp.	
		microphyllum	+

Site: 28. Location: YUKON, Peel River Watershed, west shore of Chappie Lake. Date: July 4. Elevation: 1000 ft. Aspect 0°. 65°47'N, 134°56'W. Habitat: glaciated area; Picea mariana (10-20' high) muskeg. Voucher Numbers: 30067-30116.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	1	Sphagnum fuscum	5
Lichens	14	S. rubellum	5
Bryophytes	17	S. angustifolium	3
Herbaceous vegetation	4	Ptilidium ciliare	1
Woody vegetation	74	Aulacomnium palustre	+
		Calliergon stramineum	+
<u>Lichens</u>		Dicranum elongatum	+
Cladina arbuscula ssp.	-	D. fuscescens	+
beringiana	2	Drepanocladus exannulatus	+
C. alpestris	1	D. vernicosus	+
Cladonia amaurocraea	1	Hylocomium splendens	+
Alectoria glabra	+	Pohlia nutans	+
Cetraria cucullata	+	Sphagnum balticum	+
C. laevigata	+	<u>Herbaceous Plants</u>	
C. pinastri	+	Equisetum silvaticum	1
Cladina rangiferina	+	grass	1
Cladonia cenotea	+	Rubus chamaemorus	1
C. chlorophaea	+	Petasites hyperboreus	+
C. cornuta	+		
C. deformis	+	<u>Shrubs and Trees</u>	
C. fimbriata	+	Picea mariana	50
C. gonecha	+	Betula glandulosa	5
C. gracilis var. dilatata	+	Vaccinium vitis-idaea ssp.	
C. gracilis var. gracilis	+	minus	5
Cladonia pleurota	+	Ledum palustre ssp.	
Hypogymnia physodes	+	groenlandicum	3
Lecanora allophana	+	Alnus crispa ssp. crispa	2
L. coilocarpa	+	Ledum palustre ssp. decumbens	2
Parmelia sulcata	+	Betula papyrifera ssp. humilis	1
Parmeliopsis ambigua	+	Salix glauca ssp. acutifolia	1
P. hyperopta	+	Rosa acicularis	+
Peltigera aphthosa	+	Spiraea beauverdiana	+
Stereocaulon alpinum	+	Viburnum edule	+

Site: 29. Location: YUKON, Porcupine River Watershed, NE side of Palmer Lake. Date: July 4. Elevation: 1300 ft. Aspect: 2-3°W. 66°12'N, 136°23'W. Habitat: unglaciated area; well drained muskeg, Eriophorum vaginatum - Picea mariana community. Voucher Numbers: 30117-30153.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	2	<u>Sphagnum fuscum</u>	12
Lichens	21	<u>S. bálticum</u>	3
Bryophytes	21	<u>S. angustifolium</u>	2
Herbaceous vegetation	27	<u>S. lindbergii</u>	2
Woody vegetation	29	<u>Anastrophyllum minutum</u>	+
		<u>Dicranum acutifolium</u>	+
<u>Lichens</u>		<u>D. groenlandicum</u>	+
<u>Cetraria cucullata</u>	5	<u>Herbaceous Plants</u>	
<u>Cladina arbuscula</u> ssp. beringiana	3	<u>Eriophorum vaginatum</u> ssp. vaginatum	25
<u>C. alpestris</u>	2	<u>Rubus chamaemorus</u>	2
<u>C. rangiferina</u>	2		
<u>Cetraria laevigata</u>	1	<u>Shrubs and Trees</u>	
<u>Cladonia amaurocraea</u>	1	<u>Picea mariana</u>	12
<u>C. coccifera</u>	1	<u>Ledum palustre</u> ssp. decumbens	5
<u>Icmadophila ericetorum</u>	1	<u>Betula glandulosa</u>	4
<u>Alectoria ochroleuca</u>	+	<u>Vaccinium vitis-idaea</u> ssp. minus	4
<u>A. simplicior</u>	+	<u>Larix laricina</u>	2
<u>Cetraria nivalis</u>	+	<u>Empetrum nigrum</u> ssp. hermaphroditum	1
<u>C. pinastri</u>	+	<u>Oxycoccus microcarpus</u>	1
<u>Cladonia grayi</u>	+		
<u>Evernia mesomorpha</u>	+		
<u>Hypogymnia bitteri</u>	+		
<u>H. physodes</u>	+		
<u>Lecanora allophana</u>	+		
<u>Parmeliopsis aleurites</u>	+		
<u>P. ambigua</u>	+		

Site: 30. Location: YUKON, Porcupine River Watershed, north side of Whitefish Lake. Date: July 4. Elevation: 1100 ft. Aspect: 0°. 67°09'N, 137°23'W. Habitat: unglaciated area; open well-drained peat plateau, Ledum palustre ssp. decumbens - Picea mariana community. Voucher Numbers: 30154-30192.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	2	Sphagnum fuscum	10
Lichens	39	Polytrichum juniperinum	1
Bryophytes	12	Aulacomnium palustre	+
Herbaceous vegetation	3	A. turgidum	+
Woody vegetation	44	Bryum pseudotriquetrum	+
		Ceratodon purpureus	+
		Dicranum elongatum	+
		Drepanocladus exannulatus	+
		D. vernicosus	+
		Pohlia nutans	+
		Polytrichum commune	+
		Sphagnum balticum	+
		S. lindbergii	+
		S. rubellum	+
		<u>Herbaceous Plants</u>	
		Rubus chamaemorus	2
		Eriophorum sp.	+
		<u>Shrubs and Trees</u>	
		Ledum palustre ssp. decumbens	18
		Picea mariana	16
		Ledum palustre ssp. groenlandicum	4
		Vaccinium vitis-idaea ssp. minus	4
		Andromeda polifolia	1
		Oxycoccus microcarpus	+
<u>Lichens</u>			
Cladina rangiferina	10		
Cetraria cucullata	9		
C. nivalis	5		
C. richardsonii	3		
Cladina alpestris	3		
C. arbuscula ssp. beringiana	2		
C. mitis	1		
Cladonia amaurocraea	1		
C. gonecha	1		
Icmadophila ericetorum	1		
Alectoria glabra	+		
Cetraria pinastri	+		
Cladonia cenotea	+		
C. coccifera	+		
C. crispata	+		
C. pyxidata	+		
Evernia mesomorpha	+		
Hypogymnia physodes	+		
Parmelia sulcata	+		
Parmeliopsis ambigua	+		
Usnea glabrescens	+		
U. soreidiifera	+		

Site: 31. Location: YUKON, Peel River Watershed, 5 miles SSE of Palmer Lake. Date: July 5. Elevation: 1600 ft. Aspect: 5° SW. 66° 07' N, 136° 19' W. Habitat: unglaciated area; semi-open, fairly well drained Picea mariana woods. Voucher Numbers: 30193-30247.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	3	<i>Sphagnum fuscum</i>	8
Lichens	19	<i>Hylocomium splendens</i>	4
Bryophytes	17	<i>Dicranum fuscescens</i>	1
Herbaceous vegetation	6	<i>Pleurozium schreberi</i>	1
Woody vegetation	55	<i>Ptilidium ciliare</i>	1
		<i>Aulacomnium turgidum</i>	+
		<i>Dicranum undulatum</i>	+
		<i>Drepanocladus exannulatus</i>	+
		<i>Pogonatum alpinum</i>	+
		<i>Sphagnum fallax</i>	+
		<i>S. lindbergii</i>	+
		<i>S. rubellum</i>	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
<i>Alectoria glabra</i>	4	<i>Eriophorum vaginatum</i> ssp.	
<i>Cetraria cucullata</i>	3	<i>vaginatum</i>	3
<i>Cladina arbuscula</i> ssp.		<i>Equisetum silvaticum</i>	1
<i>beringiana</i>	3	<i>Rubus chamaemorus</i>	1
<i>C. rangiferina</i>	3	<i>Petasites hyperboreus</i>	+
<i>Cetraria laevigata</i>	2		
<i>Cladonia amaurocraea</i>	2	<u>Shrubs and Trees</u>	
<i>Cetraria pinastri</i>	+	<i>Picea mariana</i>	17
<i>Cladonia botrytes</i>	+	<i>Ledum palustre</i> ssp. <i>decumbens</i>	14
<i>C. coniocraea</i>	+	<i>Larix laricina</i>	5
<i>C. crispata</i>	+	<i>Betula glandulosa</i>	3
<i>C. deformis</i>	+	<i>Vaccinium vitis-idaea</i> ssp.	
<i>C. fimbriata</i>	+	<i>minus</i>	3
<i>C. gracilis</i> var. <i>dilatata</i>	+	<i>Empetrum nigrum</i> ssp.	
<i>C. grayi</i>	+	<i>hermaphroditum</i>	1
<i>C. uncialis</i>	+	<i>Alnus crispa</i> ssp. <i>crispa</i>	+
<i>Evernia mesomorpha</i>	+	<i>Rosa acicularis</i>	+
<i>Hypogymnia bitteri</i>	+	<i>Salix niphocladus</i> var. <i>muriei</i>	+
<i>H. physodes</i>	+	<i>Spiraea beauverdiana</i>	+
<i>Lecanora coilocarpa</i>	+		
<i>Lecidea glomerulosa</i>	+		
<i>Nephroma arcticum</i>	+		
<i>Parmelia sulcata</i>	+		
<i>Parmeliopsis ambigua</i>	+		
<i>Peltigera aphthosa</i>	+		
<i>P. leucophebia</i>	+		
<i>P. malacea</i>	+		
<i>Stereocaulon alpinum</i>	+		
<i>Usnea glabrescens</i>	+		

Site: 32. Location: YUKON, Peel River Watershed, Richardson Mountains, headwaters of Doll Creek. Date: July 5. Elevation: 2300 ft. Aspect: 0-5°. 66°03'N, 135°47'W. Habitat: unglaciated area; summit of spur with Road River Formation limestone, Alectoria ochroleuca community. Voucher Numbers: 30248-30311.

	Cover %		Cover %
Bare rock/gravel	3	Anastrophyllum minutum	+
Soil	1	Aulacomnium turgidum	+
Duff/peat	-	Bryum stenotrichum	+
Lichens	58	Campyllum stellatum	+
Bryophytes	3	Dicranum elongatum	+
Herbaceous vegetation	12	D. fuscescens	+
Woody vegetation	23	Distichium capillaceum	+
		Ditrichum flexicaule	+
<u>Lichens</u>		Hylocomium splendens	+
		Myurella julacea	+
Alectoria ochroleuca	25	Rhacomitrium lanuginosum	+
Cetraria cucullata	14	Rhytidium rugosum	+
Cetraria nivalis	3	Timmia austriaca	+
Cladina arbuscula ssp.		Tortula ruralis	+
beringiana	3		
Stereocaulon alpinum	3	<u>Herbaceous Plants</u>	
Cetraria richardsonii	2	Carex scirpoidea	3
Cladina alpestris	2	Calamagrostis purpurascens ssp.	
Alectoria nitidula	+	purpurascens	1
Buellia papillata	+	Carex capillaris	1
Cetraria laevigata	+	Lupinus arcticus	1
C. tilesii	+	Androsace chamaejasme ssp.	
Cladonia coccifera	+	lehmanniana	+
C. ecmocyna	+	Anemone drummondii	+
C. pocillum	+	Arnica alpina ssp. angustifolia	+
Cornicularia divergens	+	Astragalus alpinus ssp. alpinus	+
Dactylina arctica	+	Festuca altaica	+
Lecanora epibryon	+	Lycopodium selaga spp. selago	+
Lecidella stigmatea	+	Minuartia arctica	+
Ochrolechia upsaliensis	+	Oxytropis maydelliana	+
Peltigera aphthosa	+	Pedicularis capitata	+
Placynthium nigrum	+	P. kanei ssp. kanei	+
Polyblastia intercedens	+	P. labradorica	+
Protoblastenia rupestris	+	Saussurea angustifolia	+
Rhizocarpon chioneum	+	Saxifraga hieracifolia	+
R. geographicum	+	S. oppositifolia	+
Rinodina roscida	+	S. reflexa	+
Solorina bispora	+	S. tricuspida	+
Toninia caeruleonigricans	+	Senecio conterminus	+
Usnea glabrescens	+	S. resedifolius	+
Xanthoria elegans	+	Silene acaulis ssp. acaulis	+
		Tofieldia pusilla	+
<u>Bryophytes</u>			
Abietinella abietina			

Site: 32. Continued.

	Cover %	Cover %
<u>Shrubs and Trees</u>		
<i>Cassiope tetragona</i>	6	
<i>Dryas octopetala</i> ssp. <i>alaskensis</i>	4	
<i>Betula glandulosa</i>	3	
<i>Arctostaphylos rubra</i>	2	
<i>Vaccinium uliginosum</i> ssp. <i>microphyllum</i>	2	
<i>Empetrum nigrum</i> ssp. <i>hermaphroditum</i>	1	
<i>Ledum palustre</i> ssp. <i>decumbens</i>	1	
<i>Rhododendron lapponicum</i>	+	
<i>Salix glauca</i> ssp. <i>acutifolia</i>	+	
<i>S. reticulata</i> ssp. <i>reticulata</i>	+	

Site: 33. Location: YUKON, Peel River Watershed, Richardson Mountains, headwaters of Doll Creek. Date: July 5. Elevation: 2200 ft. Aspect: 5-15° S. 66° 03' N, 136° 47' W. Habitat: unglaciated area; open timberline forest with Road River Formation limestone, Cetraria cucullata - Cassiope tetragona community. Voucher Numbers: 30312-30351.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	1		
Duff/peat	5	<i>Carex scirpoidea</i>	3
Lichens	36	<i>C. capillaris</i>	2
Bryophytes	3	<i>Lupinus arcticus</i>	2
Herbaceous vegetation	15	<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
Woody vegetation	40	<i>Androsace chamaejasme</i> ssp. <i>lehmanniana</i>	+
		<i>Anemone parviflora</i>	+
<u>Lichens</u>		<i>Arnica alpina</i> ssp. <i>angustifolia</i>	+
<i>Cetraria cucullata</i>	20	<i>Astragalus alpinus</i> ssp. <i>alpinus</i>	+
<i>Cladina arbuscula</i> ssp. <i>beringiana</i>	5	<i>Bupleurum triradiatum</i> ssp. <i>arcticum</i>	+
<i>Cetraria nivalis</i>	3	<i>Festuca altaica</i>	+
<i>C. richardsonii</i>	3	<i>Mertensia paniculata</i> var. <i>paniculata</i>	+
<i>Alectoria ochroleuca</i>	2	<i>Minuartia arctica</i>	+
<i>A. glabra</i>	+	<i>Oxytropis maydelliana</i>	+
<i>A. nigricans</i>	+	<i>Papaver lapponicum</i> ssp. <i>occidentale</i>	+
<i>Cetraria laevigata</i>	+	<i>Parrya nudicaulis</i> ssp. <i>interior</i>	+
<i>C. pinastri</i>	+	<i>Pedicularis capitata</i>	+
<i>Cladina rangiferina</i>	+	<i>P. labradorica</i>	+
<i>Cladonia pyxidata</i>	+	<i>Saussurea angustifolia</i>	+
<i>Evernia mesomorpha</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>Hypogymnia bitteri</i>	+	<i>Tofieldia pusilla</i>	+
<i>H. physodes</i>	+	<i>Zygadenus elegans</i>	+
<i>Lecanora allophana</i>	+		
<i>Parmelia sulcata</i>	+	<u>Shrubs and Trees</u>	
<i>Parmeliopsis ambigua</i>	+	<i>Cassiope tetragona</i>	15
<i>Peltigera malacea</i>	+	<i>Betula nana</i> ssp. <i>exilis</i>	5
<i>Rinodina archaea</i>	+	<i>Dryas</i> sp.	5
<i>Stereocaulon alpinum</i>	+	<i>Picea glauca</i>	5
<i>Thamnolia subuliformis</i>	+	<i>Vaccinium uliginosum</i> ssp. <i>microphyllum</i>	5
<u>Bryophytes</u>		<i>Arctostaphylos rubra</i>	3
<i>Aulacomnium acuminatum</i>	+	<i>Salix reticulata</i> ssp. <i>reticulata</i>	1
<i>Bryum pallescens</i>	+	<i>Empetrum nigrum</i> ssp. <i>hermaphroditum</i>	+
<i>Dicranum elongatum</i>	+	<i>Larix laricina</i>	+
<i>D. fuscescens</i>	+	<i>Potentilla fruticosa</i>	+
<i>Hylocomium splendens</i>	+	<i>Rhododendron lapponicum</i>	+
<i>Rhytidium rugosum</i>	+		

Site: 34. Location: YUKON, Peel River Watershed, Richardson Mountains, headwaters of Doll Creek. Date: July 5. Elevation: 2600 ft. Aspect: 0-5°. 66°05'N, 135°43'W. Habitat: unglaciated area; summit of ridge with siltstone, Betula nana ssp. exilis - Alectoria ochroleuca community. Voucher Numbers: 30352-30403.

	Cover %		Cover %
Bare rock/gravel	2	<u>Bryophytes</u>	
Soil	-		
Duff/peat	3	<u>Aulacomnium acuminatum</u>	+
Lichens	36	<u>Bryoerythrophyllum recurvirostre</u>	+
Bryophytes	3	<u>Bryum stenotrichum</u>	+
Herbaceous vegetation	7	<u>Dicranum fuscescens</u>	+
Woody vegetation	49	<u>Eurhynchium pulchellum</u>	+
		<u>Polytrichum juniperinum</u>	+
<u>Lichens</u>		<u>Rhytidium rugosum</u>	+
<u>Alectoria ochroleuca</u>	11	<u>Herbaceous Plants</u>	
<u>Cetraria cucullata</u>	9		
<u>Cladina alpestris</u>	5	<u>Carex microchaeta</u>	2
<u>Cetraria nivalis</u>	4	<u>Festuca altaica</u>	2
<u>C. laevigata</u>	1	<u>Arnica alpina</u> ssp.	
<u>C. richardsonii</u>	1	<u>angustifolia</u>	+
<u>Lecidea macrocarpa</u>	1	<u>Campanula uniflora</u>	+
<u>Rhizocarpa geographicum</u>	1	<u>Hierochloe alpina</u>	+
<u>Umbilicaria hyperborea</u>	1	<u>Lupinus arcticus</u>	+
<u>U. proboscidea</u>	1	<u>Minuartia arctica</u>	+
<u>Alectoria nitidula</u>	+	<u>Papaver lapponicum</u> ssp.	
<u>Asahinea chrysantha</u>	+	<u>occidentale</u>	+
<u>A. scholanderi</u>	+	<u>Pedicularis capitata</u>	+
<u>Blastenia sinapisperma</u>	+	<u>P. kanei</u> ssp. <u>kanei</u>	+
<u>Buellia papillata</u>	+	<u>Polygonum viviparum</u>	+
<u>Cladina arbuscula</u> ssp.		<u>Saxifraga bronchialis</u> ssp.	
<u>beringiana</u>	+	<u>funstonii</u>	+
<u>Cladonia amaurocraea</u>	+	<u>Stellaria edwardsii</u>	+
<u>C. pocillum</u>	+		
<u>C. pyxidata</u>	+	<u>Shrubs and Trees</u>	
<u>C. uncialis</u>	+		
<u>Cornicularia divergens</u>	+	<u>Betula glandulosa</u>	20
<u>Haematomma lapponicum</u>	+	<u>Salix phlebophylla</u>	10
<u>Lecanora polytropa</u>	+	<u>Dryas</u> sp.	5
<u>Lecidea</u> cf. <u>fuscoatra</u>	+	<u>Vaccinium vitis-idaea</u> ssp.	
<u>Ochrolechia upsaliensis</u>	+	<u>minus</u>	3
<u>Parmelia centrifuga</u>	+	<u>Ledum palustre</u> ssp. <u>decumbens</u>	1
<u>Parmelia omphalodes</u>	+	<u>Empetrum nigrum</u> ssp.	
<u>Peltigera leucophlebia</u>	+	<u>hermaphroditum</u>	+
<u>Pertusaria glomerata</u>	+		
<u>Rhizocarpon geographicum</u>	+		
<u>Rinodina turfacea</u>	+		
<u>Sphaerophorus globosus</u>	+		
<u>Sporastatia testudinea</u>	+		
<u>Stereocaulon alpinum</u>	+		

Site: 35. Location: YUKON, Peel River Watershed, Richardson Mountains, headwaters of Doll Creek. Date: July 5. Elevation: 2500 ft. Aspect: 10-15° S. 66° 05' N, 135° 43' W. Habitat: unglaciated area; timberline forest with some siltstone, Betula glandulosa community. Voucher Numbers: 30404-30443.

	Cover %		Cover %
Bare rock/gravel	5	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	1	Carex microchaeta	2
Lichens	34	Arnica alpina ssp. angustifolia	+
Bryophytes	4	Bupleurum triradiatum ssp.	
Herbaceous vegetation	6	arcticum	+
Woody vegetation	50	Hierochloe alpina	+
		Linnaea borealis ssp.	
<u>Lichens</u>		americana	+
Cladina alpestris	7	Lupinus arcticus	+
Cetraria cucullata	6	Minuartia arctica	+
C. richardsonii	6	Pedicularis capitata	+
Stereocaulon alpinum	5	P. kanei ssp. kanei	+
Cetraria laevigata	2	P. labradorica	+
Cladonia amaurocraea	2	Poa glauca	+
Cladonia rangiferina	1	Saxifraga tricuspidata	+
Thamnolia subuliformis	1	Stellaria edwardsii	+
Alectoria ochroleuca	+	<u>Shrubs and Trees</u>	
Cetraria commixta	+		
C. pinastri	+	Betula glandulosa	20
Cladonia gonecha	+	Arctostaphylos rubra	5
C. pocillum	+	Picea glauca	5
C. pyxidata	+	Vaccinium uliginosum ssp.	
Dactylina arctica PD-	+	alpinum	4
Hypogymnia bitteri	+	Dryas sp.	3
H. physodes	+	Empetrum nigrum ssp.	
Lecanora coilocarpa	+	hermaphroditum	3
L. polytropa	+	Ledum palustre ssp. decumbens	3
Parmelia sulcata	+	Salix glauca ssp. acutifolia	2
Parmeliopsis ambigua	+	Vaccinium vitis-idaea ssp.	
Peltigera rufescens	+	minus	2
Rhizocarpon geographicum	+	Juniperus communis ssp. nana	1
Rinodina mniaraea	+	Ledum palustre ssp.	
		groenlandicum	1
<u>Bryophytes</u>		Rosa acicularis	+
Rhacomitrium lanuginosum	1		
Rhytidium rugosum	1		
Aulacomnium acuminatum	+		
A. turgidum	+		
Dicranum elongatum	+		
Ditrichum flexicaule	+		
Grimmia apocarpa	+		
Myurella julacea	+		
Polytrichum piliferum	+		

Site: 36. Location: YUKON, Peel River Watershed, Mount Deception.
 Date: July 6. Elevation: 2430 ft. Aspect: 0-10°. 65°37'N, 135°30'W.
 Habitat: glaciated area; exposed ridge and upper limit of timberline,
 numerous erratics present, Cetraria cucullata - C. nivalis community.
 Voucher Numbers: 30444-30538.

	Cover %		Cover %
Bare rock/gravel	20	<u>Bryophytes</u>	
Soil	-		
Duff/peat	2	<i>Ditrichum flexicaule</i>	+
Lichens	54	<i>Grimmia alpicola</i>	+
Bryophytes	3	<i>Hypnum bambergeri</i>	+
Herbaceous vegetation	9	<i>H. vaucheri</i>	+
Woody vegetation	12	<i>Oncophorus wahlenbergii</i>	+
		<i>Rhacomitrium lanuginosum</i>	+
<u>Lichens</u>		<i>Rhytidium rugosum</i>	+
<i>Cetraria cucullata</i>	17	<i>Tortella tortuosa</i>	+
<i>C. nivalis</i>	10	<i>Tortula ruralis</i>	+
<i>Alectoria ochroleuca</i>	5	<u>Herbaceous Plants</u>	
<i>Cetraria laevigata</i>	4		
<i>C. tilesii</i>	4	<i>Carex misandra</i>	2.
<i>Alectoria nigricans</i>	3	<i>C. scirpoidea</i>	1
<i>Cornicularia divergens</i>	3	<i>Arnica alpina</i> ssp. <i>angustifolia</i>	+
<i>Cladina alpestris</i>	2	<i>Astragalus umbellatus</i>	+
<i>Lecidella stigmatea</i>	1	<i>Calamagrostis purpurascens</i> ssp.	
<i>Thamnolia subuliformis</i>	1	<i>purpurascens</i>	+
<i>Xanthoria elegans</i>	1	<i>Campanula uniflora</i>	+
<i>Agyrophora rigida</i>	+	<i>Chrysanthemum integrifolium</i>	+
<i>Caloplaca jungermanniae</i>	+	<i>Draba nivalis</i>	+
<i>Cetraria commixta</i>	+	<i>Elymus innovatus</i>	+
<i>Cladonia pocillum</i>	+	<i>Hedysarum alpinum</i> ssp.	
<i>Collema</i> sp.	+	<i>americanum</i>	+
<i>Collema auriculatum</i>	+	<i>Hierochloa alpina</i>	+
<i>Dactylina arctica</i> PD ⁺	+	<i>Lesquerella calderi</i>	+
<i>Evernia perfragilis</i>	+	<i>Lupinus arcticus</i>	+
<i>Lecanora cinerea</i>	+	<i>Minuartia arctica</i>	+
<i>L. epibryon</i>	+	<i>M. rossii</i>	+
<i>L. polytropa</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>L. verrucosa</i>	+	<i>jordalii</i>	+
<i>Lecidea armeniaca</i>	+	<i>O. maydelliana</i>	+
<i>L. decipiens</i>	+	<i>Papaver lapponicum</i> ssp.	
<i>L. rubiformis</i>	+	<i>occidentale</i>	+
<i>Ochrolechia frigida</i>	+	<i>Parrya nudicaulis</i> ssp.	
<i>Physcia caesia</i>	+	<i>septentrionalis</i>	+
<i>P. sciastra</i>	+	<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>Placynthium nigrum</i>	+	<i>P. sudetica</i> ssp. <i>interior</i>	+
<i>Protoblastenia rupestris</i>	+	<i>Phlox sibirica</i>	+
<i>Rhizocarpon chioneum</i>	+	<i>Pinguicula vulgaris</i> ssp. <i>vulgaris</i>	+
<i>R. disporum</i>	+	<i>Saussurea angustifolia</i>	+
<i>R. geographicum</i>	+	<i>Saxifraga oppositifolia</i>	+
<i>R. macrosporum</i>	+	<i>Senecio resedifolius</i>	+
<i>Sporastatia testudinea</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>Toninia caeruleonigricans</i>	+	<i>Thalictrum alpinum</i>	+
<i>T. tristis</i>	+	<i>Tofieldia coccinea</i>	+

Site: 36. Continued.

	Cover %	Cover %
<i>Tofieldia pusilla</i>	+	
<i>Woodsia glabella</i>	+	
<u>Shrubs and Trees</u>		
<i>Dryas</i> sp.	6	
<i>Arctostaphylos rubra</i>	1	
<i>Betula glandulosa</i>	1	
<i>Cassiope tetragona</i>	1	
<i>Empetrum nigrum</i> ssp. hermaphroditum	1	
<i>Salix reticulata</i> ssp. reticulata	1	
<i>Alnus crispa</i> ssp. <i>crispa</i>	+	
<i>Andromeda polifolia</i>	+	
<i>Picea glauca</i>	+	
<i>Rhododendron lapponicum</i>	+	
<i>Vaccinium uliginosum</i> ssp. alpinum	+	

Site: 36A*. Location: YUKON, Peel River Watershed, Hungry Creek, 1 mile south of Mount Deception. Date: July 6. Elevation: 1400 ft. Aspect: 0°. 65° 35' N, 135° 33' W. Habitat: glaciated area; creek bank. Voucher Numbers: 30525-30538.

	Cover %		Cover %
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Bacidia sphaeroides	+	Amerorchis rotundifolia	+
Caloplaca holocarpa	+	Aster sibiricus	+
Lecidea glomerulosa	+	Epilobium latifolium	+
Leptogium saturninum	+	Galium boreale	+
		Melandrium taimyrense	+
		Oxytropis deflexa var.	
		foliolosa	+
		Valeriana capitata	+
		<u>Shrubs and Trees</u>	
		Alnus incana ssp. tenuifolia	+

* No cover ratings taken. An incomplete collection was made from soil and from Populus balsamifera along the creek bank.

Site: 37. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 8 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3600 ft. Aspect: 0-10°. 63°18'N, 123°11'W. Habitat: glaciated area, exposed summit of ridge with limestone and scattered erratics, Alectoria ochroleuca - Carex community. Voucher Numbers: 30539-30605.

	Cover %		Cover %
Bare rock/gravel	39	<u>Tomenthypnum nitens</u>	+
Soil	5	<u>Tortella fragilis</u>	+
Duff/peat	1	<u>T. tortuosa</u>	+
Lichens	30	<u>Tortula ruralis</u>	+
Bryophytes	3		
Herbaceous vegetation	16	<u>Herbaceous Plants</u>	
Woody vegetation	6		
		<u>Carex misandra</u>	5
<u>Lichens</u>		<u>C. scirpoidea</u>	4
<u>Alectoria ochroleuca</u>	8	<u>C. glacialis</u>	1
<u>Cetraria cucullata</u>	4	<u>Hedysarum mackenzii</u>	1
<u>C. nivalis</u>	4	<u>Silene acaulis</u> ssp. <u>acaulis</u>	1
<u>C. tilesii</u>	4	<u>Androsace chamaejasme</u> ssp.	
<u>C. laevigata</u>	3	<u>lehmanniana</u>	+
<u>Thamnolia subuliformis</u>	1	<u>Antennaria friesiana</u> ssp.	
<u>Cetraria richardsonii</u>	+	<u>compacta</u>	+
<u>Collema auriculatum</u>	+	<u>Arnica alpina</u> ssp. <u>angustifolia</u>	+
<u>C. tenax</u>	+	<u>Braya henryae</u>	+
<u>Dactylina arctica</u> PD-	+	<u>Eriophorum angustifolium</u> ssp.	
<u>D. ramulosa</u>	+	<u>triste</u>	+
<u>Evernia perfragilis</u>	+	<u>Minuartia rossii</u>	+
<u>Lecanora cinerea</u>	+	<u>Oxytropis campestris</u> ssp.	
<u>L. epibryon</u>	+	<u>gracilis</u>	+
<u>L. rupicola</u>	+	<u>O. nigrescens</u> ssp. <u>bryophila</u>	+
<u>L. verrucosa</u>	+	<u>Pedicularis kanei</u> ssp. <u>kanei</u>	+
<u>Lecidea decipiens</u>	+	<u>Potentilla uniflora</u>	+
<u>L. marginata</u>	+	<u>Saxifraga bronchialis</u> ssp.	
<u>Lecidella stigmatea</u>	+	<u>funstonii</u>	+
<u>Ochrolechia frigida</u>	+	<u>S. oppositifolia</u>	+
<u>Polyblastia intercedens</u>	+	<u>Senecio resedifolius</u>	+
<u>Protoblastenia rupestris</u>	+	<u>Thalictrum alpinum</u>	+
<u>Rhizocarpon chioneum</u>	+	<u>Tofieldia coccinea</u>	+
<u>R. geographicum</u>	+	<u>T. pusilla</u>	+
<u>Solorina bispora</u>	+	<u>Woodsia glabella</u>	+
<u>Toninia caeruleonigricans</u>	+		
<u>T. tristis</u>	+	<u>Shrubs and Trees</u>	
<u>Xanthoria elegans</u>	+	<u>Dryas integrifolia</u> ssp.	
		<u>integrifolia</u>	2
<u>Bryophytes</u>		<u>Arctostaphylos rubra</u>	1
<u>Cirriphyllum cirrosum</u>	+	<u>Rhododendron lapponicum</u>	1
<u>Ditrichum flexicaule</u>	+	<u>Salix reticulata</u> ssp.	
<u>Hypnum bambergeri</u>	+	<u>reticulata</u>	1
<u>Orthotrichum alpestre</u>	+	<u>Andromeda polifolia</u>	+
<u>Ptilidium ciliare</u>	+	<u>Betula nana</u> ssp. <u>exilis</u>	+
<u>Rhytidium rugosum</u>	+	<u>Cassiope tetragona</u> ssp.	
		<u>tetragona</u>	+

Site: 37. Continued.

	Cover %	Cover %
Potentilla fruticosa	+	
Vaccinium uliginosum ssp. alpinum	+	

Site: 38. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 8 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3400 ft. Aspect: 0-5°. 63°18'N, 123°11'W. Habitat: glaciated area; small col, Cetraria - Cassiope tetragona community. Voucher Numbers: 30606-30669.

	Cover %		Cover %
Bare rock/gravel	5	Hypnum bambergeri	+
Soil	4	Meesea uliginosa	+
Duff/peat	1	Pohlia cruda	+
Lichens	40	Tortella fragilis	+
Bryophytes	6	T. tortuosa	+
Herbaceous vegetation	17		
Woody vegetation	27	<u>Herbaceous Plants</u>	
<u>Lichens</u>		Carex nardina	3
Cetraria cucullata	8	C. petricosa	3
C. nivalis	8	C. vaginata	2
C. laevigata	6	grass	1
C. richardsonii	4	Silene acaulis ssp. acaulis	1
C. tilesii	3	Androsace chamaejasme ssp.	
Alectoria ochroleuca	2	lehmanniana	+
Cetraria islandica	2	Anemone parviflora	+
Cladina arbuscula ssp.		A. richardsonii	+
beringiana	2	Braya henryae	+
Cladina mitis	1	Eriophorum angustifolium ssp.	
Blastenia sinapisperma	+	triste	+
Cladonia pocillum	+	Hedysarum mackenzii	+
Collema auriculatum	+	Oxytropis maydelliana	+
Cornicularia aculeata	+	Pedicularis kanei ssp. kanei	+
Dactylina arctica PD-	+	P. labradorica	+
D. ramulosa PD+	+	Pinguicula vulgaris ssp. vulgaris	+
Lecanora verrucosa	+	Pyrola minor	+
Lecidea assimilata	+	Ranunculus sp.	+
L. rubiformis	+	Saxifraga oppositifolia	+
Peltigera leucophlebia	+	Stellaria edwardsii	+
P. rufescens	+	Thalictrum alpinum	+
Polyblastia intercedens	+	Tofieldia pusilla	+
Rhizocarpon chioneum	+		
Solorina bispora	+	<u>Shrubs and Trees</u>	
Verrucaria muralis	+	Cassiope tetragona ssp.	
V. virens	+	tetragona	7
		Arctostaphylos rubra	5
<u>Bryophytes</u>		Betula glandulosa	3
Hylocomium splendens	2	Dryas integrifolia ssp.	
Dicranum fuscescens	1	integrifolia	3
Ptilidium ciliare	1	Salix reticulata ssp.	
Tomenthypnum nitens	1	reticulata	3
Aulacomnium acuminatum	+	Vaccinium uliginosum ssp.	
Bryum creberrimum	+	microphyllum	2
Distichium sp.	+	Empetrum nigrum ssp.	
Ditrichum flexicaule	+	hermaphroditum	1
Drepanocladus uncinatus	+	Rhododendron lapponicum	1
		Salix sitchensis	1

Site: 38. Continued.

	Cover %	Cover %
Andromeda polifolia	+	
Potentilla fruticosa	+	
Vaccinium vitis-idaea ssp. minus	+	

Site: 39. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 8 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3400 ft. Aspect: 5-15°NW. 63°18'N, 123°11'W. Habitat: glaciated area; stone stripe community. Voucher Numbers: 30670-30719.

	Cover %		Cover %
Bare rock/gravel	46	<u>Bryophytes</u>	
Soil	2		
Duff/peat	-	<i>Abietinella abietina</i>	+
Lichens	23	<i>Ceratodon purpureus</i>	+
Bryophytes	2	<i>Cirriphyllum cirrosum</i>	+
Herbaceous vegetation	15	<i>Distichium inclinatum</i>	+
Woody vegetation	12	<i>Ditrichum flexicaule</i>	+
		<i>Grimmia apocarpa</i>	+
		<i>Hypnum bambergeri</i>	+
		<i>H. procerrimum</i>	+
		<i>Rhytidium rugosum</i>	+
		<i>Tormenthypnum nitens</i>	+
		<i>Tortula ruralis</i>	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
<i>Cetraria cucullata</i>	4	<i>Carex misandra</i>	2
<i>C. nivalis</i>	4	<i>C. scirpoidea</i>	2
<i>C. tilesii</i>	4	<i>Oxytropis maydelliana</i>	2
<i>Alectoria ochroleuca</i>	2	<i>Antennaria friesiana</i> ssp.	
<i>Cetraria laevigata</i>	2	<i>compacta</i>	1
<i>Leccidella stigmatea</i>	2	<i>Saxifraga oppositifolia</i>	1
<i>Rhizocarpon chioneum</i>	2	<i>Senecio resedifolius</i>	1
<i>Cetraria islandica</i>	1	<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
<i>Alectoria nigricans</i>	+	<i>Androsace chamaejasme</i> ssp.	
<i>Cetraria richardsonii</i>	+	<i>lehmanniana</i>	+
<i>Cladonia pocillum</i>	+	<i>Astragalus alpinus</i> ssp. <i>alpinus</i>	+
<i>Dactylina arctica</i> PD-	+	<i>Kobresia myosuroides</i>	+
<i>D. ramulosa</i> PD+	+	<i>Minuartia rossii</i>	+
<i>Lecanora epibryon</i>	+	<i>Oxytropis nigrescens</i> ssp.	
<i>L. verrucosa</i>	+	<i>bryophila</i>	+
<i>Ochrolechia frigida</i>	+	<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>Polyblastia intercedens</i>	+	<i>Thalictrum alpinum</i>	+
<i>Protoblastenia rupestris</i>	+	<i>Tofieldia coccinea</i>	+
<i>Rhizocarpon</i> sp.	+	<i>T. pusilla</i>	+
<i>R. geographicum</i>	+		
<i>Rinodina roscida</i>	+	<u>Shrubs and Trees</u>	
<i>Solorina saccata</i>	+	<i>Arctostaphylos rubra</i>	3
<i>Thamnia subuliformis</i>	+	<i>Dryas integrifolia</i> ssp.	3
<i>Verrucaria muralis</i>	+	<i>integrifolia</i>	
<i>Xanthoria elegans</i>	+	<i>Salix reticulata</i> ssp. <i>reticulata</i>	3
		<i>Cassiope tetragona</i>	1
		<i>Rhododendron lapponicum</i>	1
		<i>Salix rotundifolia</i>	+
		<i>Vaccinium uliginosum</i> ssp.	
		<i>alpinum</i>	+

Site: 40. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 8 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3300 ft. Aspect: 0°. 63°18'N, 123°11'W. Habitat: glaciated area; wet meadow, Hylocomium splendens - Carex community. Voucher Numbers: 30720-30757.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	-	<i>Carex stylosa</i>	7
Lichens	7	<i>C. vaginata</i>	7
Bryophytes	51	<i>C. supina</i> ssp. <i>spaniocarpa</i>	6
Herbaceous vegetation	28	<i>Androsace chamaejasme</i> ssp.	
Woody vegetation	14	<i>lehmanniana</i>	1
		<i>Arctagrostis latifolia</i> var.	
<u>Lichens</u>		<i>arundinacea</i>	1
		<i>Equisetum scirpoides</i>	1
<i>Cetraria cucullata</i>	2	<i>Rumex arcticus</i>	1
<i>C. laevigata</i>	2	<i>Senecio atropurpureus</i> ssp.	
<i>C. nivalis</i>	2	<i>frigidus</i>	1
<i>Peltigera leucophlebia</i>	1	<i>S. lugens</i>	1
<i>Alectoria ochroleuca</i>	+	<i>Stellaria edwardsii</i>	1
<i>Cetraria richardsonii</i>	+	<i>Anemone parviflora</i>	+
<i>Cladonia deformis</i>	+	<i>Eriophorum brachyantherum</i>	+
<i>C. gonecha</i>	+	<i>Rubus arcticus</i> ssp. <i>acaulis</i>	+
<i>C. gracilis</i> var. <i>dilatata</i>	+		
<i>C. gracilis</i> var. <i>gracilis</i>	+	<u>Shrubs and Trees</u>	
<i>Dactylina arctica</i> PD-	+		
		<i>Salix myrtillofolia</i>	4
<u>Bryophytes</u>		<i>S. niphoclada</i> var. <i>muriei</i>	4
		<i>S. reticulata</i> ssp. <i>reticulata</i>	2
<i>Hylocomium splendens</i>	27	<i>Potentilla fruticosa</i>	1
<i>Aulacomnium acuminatum</i>	10	<i>Rhododendron lapponicum</i>	1
<i>Drepanocladus revolvens</i> var.		<i>Ledum palustre</i> ssp.	
<i>intermedius</i>	5	<i>groenlandicum</i>	+
<i>Tomenthypnum nitens</i>	5	<i>Picea glauca</i>	+
<i>Meesea uliginosa</i>	1		
<i>Brachythecium turgidum</i>	+		
<i>Bryum pseudotriquetrum</i>	+		
<i>Campylium stellatum</i>	+		
<i>Cinclidium stygium</i>	+		
<i>Dicranum acutifolium</i>	+		
<i>D. elongatum</i>	+		
<i>Splachnum rubrum</i>	+		

Site: 41. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 8 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3200 ft. Aspect: 0°. 63°17'N, 123°11'W. Habitat: glaciated area; low spot on ridge, Alectoria ochroleuca - Betula glandulosa community. Voucher Numbers: 30758-30805.

	Cover %		Cover %
Bare rock/gravel	5	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	<u>Blepharostoma trichophyllum</u>	+
Lichens	57	<u>Ditrichum flexicaule</u>	+
Bryophytes	1		
Herbaceous vegetation	7	<u>Herbaceous Plants</u>	
Woody vegetation	29		
		<u>Oxytropis campestris</u> ssp.	
<u>Lichens</u>		jordalii	2
<u>Alectoria ochroleuca</u>	19	<u>Carex</u> sp.	1
<u>Cetraria laevigata</u>	10	<u>Androsace chamaejasme</u> ssp.	
<u>C. cucullata</u>	8	lehmanniana	+
<u>C. nivalis</u>	8	<u>Campanula uniflora</u>	+
<u>C. tilesii</u>	3	<u>Elymus innovatus</u>	+
<u>Cladina arbuscula</u> ssp.		<u>Hedysarum mackenzii</u>	+
beringiana	3	<u>Hierochloe alpina</u>	+
<u>Cetraria richardsonii</u>	2	<u>Senecio resedifolius</u>	+
<u>Lecidella stigmatea</u>	1	<u>Silene acaulis</u> ssp. acaulis	+
<u>Buellia papillata</u>	+	<u>Thalictrum alpinum</u>	+
<u>Caloplaca holocarpa</u>	+	<u>Tofieldia racococcinea</u>	+
<u>C. stillicidiorum</u>	+		
<u>Candelariella aurella</u>	+	<u>Shrubs and Trees</u>	
<u>C. vitellina</u>	+	<u>Betula glandulosa</u>	13
<u>Cladonia cornuta</u>	+	<u>Arctostaphylos rubra</u>	5
<u>C. gonecha</u>	+	<u>Dryas integrifolia</u> ssp.	-
<u>C. gracilis</u> var. gracilis	+	integrifolia	3
<u>C. lepidota</u>	+	<u>Potentilla fruticosa</u>	2
<u>C. pocillum</u>	+	<u>Rhododendron lapponicum</u>	2
<u>C. pyxidata</u>	+	<u>Salix reticulata</u> ssp. reticulata	2
<u>Collema auriculatum</u>	+	<u>Vaccinium uliginosum</u> ssp.	
<u>Cornicularia aculeata</u>	+	alpinum	2
<u>C. divergens</u>	+	<u>Salix glauca</u> ssp. acutifolia	+
<u>Fulgensia bracteata</u>	+		
<u>Haematomma lapponicum</u>	+		
<u>Lecanora dispersa</u>	+		
<u>L. epibryon</u>	+		
<u>L. polytrapa</u>	+		
<u>L. rupicola</u>	+		
<u>Lecidea assimilata</u>	+		
<u>L. decipiens</u>	+		
<u>L. lapicida</u>	+		
<u>Ochrolechia upsaliensis</u>	+		
<u>Peltigera aphthosa</u>	+		
<u>Rhizocarpon geographicum</u>	+		
<u>Thamnia subuliformis</u>	+		
<u>Toninia caeruleonigrans</u>	+		

Site: 42. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 9 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3200 ft. Aspect: 0°. 63° 17' N, 123° 12' W. Habitat: glaciated area; limestone bird block on high ridge, Lecanora candida - Physcia sciastra - Xanthoria elegans community. Voucher Numbers: 30806-30829.

	Cover %		Cover %
Bare rock/gravel	54	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Grimmia apocarpa	5
Lichens	36	Hypnum vaucheri	3
Bryophytes	8	Abietinella abietina	+
Herbaceous vegetation	2	Ditrichum flexicaule	+
Woody vegetation	-	Tortula ruralis	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
Lecanora candida	10	Poa glauca	1
Physcia sciastra	10	Saxifraga tricuspidata	1
Xanthoria elegans	10		
Physconia muscigena	4		
Collema auriculatum	2		
Cetraria nivalis	+		
C. tilesii	+		
Dermatocarpon miniatum var. complicatum	+		
Physcia dubia	+		
Placynthium nigrum	+		
Rinodina roscida	+		
Thamnotia subuliformis	+		
Toninia candida	+		

Site: 43. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 9 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3200 ft. Aspect: 5° N. 63° 17' N, 123° 12' W. Habitat: glaciated area; wet meadow, Carex vaginata - C. membranacea community. Voucher Numbers: 30830-30867.

	Cover %		Cover %
Bare rock/gravel	18	<u>Herbaceous Plants</u>	
Soil	10		
Duff/peat	-	<i>Carex vaginata</i>	30
Lichens	12	<i>C. membranacea</i>	10
Bryophytes	3	<i>Eriophorum angustifolius</i> ssp.	
Herbaceous vegetation	49	<i>triste</i>	5
Woody vegetation	8	<i>Equisetum arvense</i>	1
		<i>Tofieldia pusilla</i>	1
<u>Algae</u>		<i>Androsace chamaejasme</i> ssp.	
		<i>lehmanniana</i>	+
Nostoc sp.	+	<i>Arctagrostis latifolia</i> var.	
		<i>arundinacea</i>	+
<u>Lichens</u>		<i>Parnassia kotzebuei</i>	+
		<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>Cetraria laevigata</i>	3	<i>Pinguicula vulgaris</i> ssp.	
<i>Alectoria ochroleuca</i>	2	<i>vulgaris</i>	+
<i>Cetraria cucullata</i>	2	<i>Saxifraga oppositifolia</i>	+
<i>C. tilesii</i>	2	<i>Thalictrum alpinum</i>	+
<i>C. nivalis</i>	1		
<i>Rhizocarpon chioneum</i>	1	<u>Shrubs and Trees</u>	
<i>Cladonia gracilis</i> var. <i>dilatata</i>	+		
<i>C. gracilis</i> var. <i>gracilis</i>	+	<i>Salix alaxensis</i> ssp. <i>alaxensis</i>	2
<i>C. pocillum</i>	+	<i>Arctostaphylos rubra</i>	1
<i>C. pyxidata</i>	+	<i>Dryas integrifolia</i> ssp.	
<i>Dactylina arctica</i> PD+	+	<i>integrifolia</i>	1
<i>D. ramulosa</i> PD+	+	<i>Rhododendron lapponicum</i>	1
<i>Lecanora epibryon</i>	+	<i>Salix arctica</i> ssp. <i>arctica</i>	1
<i>Polyblastia intercedens</i>	+	<i>S. reticulata</i> ssp. <i>reticulata</i>	1
<i>Protoblastenia rupestris</i>	+	<i>Potentilla fruticosa</i>	+
		<i>Vaccinium vitis-idaea</i> ssp. <i>minus</i>	+
<u>Bryophytes</u>			
<i>Ditrichum flexicaule</i>	1		
<i>Bryum wrightii</i>	+		
<i>Cinclidium stygium</i>	+		
<i>Dicranum elongatum</i>	+		
<i>Distichium capillaceum</i>	+		
<i>Drepanocladus revolvens</i> var.			
<i>intermedius</i>	+		
<i>Hypnum bambergeri</i>	+		
<i>H. procerrimum</i>	+		
<i>Mnium blyttii</i>	+		
<i>Myurella julacea</i>	+		
<i>Tomenthypnum nitens</i>	+		

Site: 44. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 9 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3200 ft. Aspect: 0°. 63°17'N, 123°13'W. Habitat: glaciated area; large granite erratic (3x4x3') on ridge, Rhizocarpon geographicum - Sporastatia testudinea community. Voucher Numbers: 30868-30877.

	Cover %		Cover %
Bare rock/gravel	21	<u>Lichens</u>	
Soil	-		
Duff/peat	-	Rhizocarpon geographicum	20
Lichens	79	Sporastatia testudinea	20
Bryophytes	-	Umbilicaria proboscidea	15
Herbaceous vegetation	-	Lecanora cinerea	10
Woody vegetation	-	Agyrophora rigida	5
		Lecidea armeniaca	4
		Lecanora chrysoleuca	1
		Lecanora rupicola	+
		Lecidea luridella	+
		Rhizocarpon badioatrum	+
		Rinodina aterrima	+

Site: 45. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 9 miles south of the summit of Cap Mountain. Date: July 8. Elevation: 3200 ft. Aspect: 0-10°W. 63°17'N, 123°13'W. Habitat: glaciated area; ridge with limestone rubble, Cetraria community. Voucher Numbers: 30878-30919.

	Cover %		Cover %
Bare rock/gravel	59	<u>Herbaceous Plants</u>	
Soil	2		
Duff/peat	-	<i>Carex scirpoidea</i>	2
Lichens	21	<i>C. petricosa</i>	1
Bryophytes	2	<i>Androsace chamaejasme</i> ssp.	
Herbaceous vegetation	7	<i>lehmanniana</i>	+
Woody vegetation	9	<i>Antennaria friesiana</i> ssp.	
		<i>compacta</i>	+
		<i>Braya henryae</i>	+
		<i>Hedysarum alpinum</i> ssp.	+
		<i>americanum</i>	+
		<i>H. mackenzii</i>	+
		<i>Lesquerella calderi</i>	+
		<i>Oxytropis campestris</i> ssp.	+
		<i>gracilis</i>	+
		<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
		<i>Saxifraga oppositifolia</i>	+
		<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
		<i>Thalictrum alpinum</i>	+
		<i>Tofieldia coccinea</i>	+
		<i>T. pusilla</i>	+
		<u>Shrubs and Trees</u>	
		<i>Dryas integrifolia</i> ssp.	
		<i>integrifolia</i>	4
		<i>Arctostaphylos uva-ursi</i> var.	
		<i>uva-ursi</i>	1
		<i>Picea glauca</i>	1
		<i>Potentilla fruticosa</i>	1
		<i>Salix reticulata</i> ssp.	
		<i>reticulata</i>	1
		<i>Arctostaphylos rubra</i>	+
		<i>Rhododendron lapponicum</i>	+
		<u>Lichens</u>	
<i>Cetraria nivalis</i>	4		
<i>C. tilesii</i>	3		
<i>C. cucullata</i>	2		
<i>C. laevigata</i>	2		
<i>Evernia perfragilis</i>	2		
<i>Alectoria ochroleuca</i>	1		
<i>Thamnia subuliformis</i>	1		
<i>Caloplaca stillicidiorum</i>	+		
<i>Cladonia pocillum</i>	+		
<i>Dactylina arctica</i>	+		
<i>Lecanora epibryon</i>	+		
<i>Lecidea assimilata</i>	+		
<i>L. decipiens</i>	+		
<i>L. marginata</i>	+		
<i>L. paddida</i>	+		
<i>Ochrolechia frigida</i>	+		
<i>Physconia muscigena</i>	+		
<i>Polyblastia intercedens</i>	+		
<i>Protoblastenia rupestris</i>	+		
<i>Rhizocarpon chioneum</i>	+		
<i>Rinodina roscida</i>	+		
<i>Solorina bispora</i>	+		
<i>S. saccata</i>	+		
<i>Xanthoria elegans</i>	+		
		<u>Bryophytes</u>	
<i>Ditrichum flexicaule</i>	+		
<i>Encalypta rhaptocarpa</i>	+		
<i>Mnium blytii</i>	+		
<i>Myurella julacea</i>	+		
<i>Tortella fragilis</i>	+		
<i>T. tortuosa</i>	+		

Site: 46. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 6000 ft. Aspect: 0-5°. 63°05'N, 125°54'W. Habitat: unglaciated area; col with limestone rubble. Voucher Numbers: 30920-30957.

	Cover %		Cover %
Bare rock/gravel	73	<u>Herbaceous Plants</u>	
Soil	10		
Duff/peat	-	<i>Saxifraga oppositifolia</i>	2
Lichens	7	<i>Androsace chamaejasme</i> ssp.	
Bryophytes	2	<i>lehmanniana</i>	+
Herbaceous vegetation	6	<i>Anemone parviflora</i>	+
Woody vegetation	2	<i>Carex misandra</i>	+
		<i>C. nardina</i>	+
		<i>Cerastium beeringianum</i> var.	
		<i>beeringianum</i>	+
		<i>Draba macrocarpa</i>	+
		<i>Melandrium apetalum</i> ssp.	
		<i>arctium</i>	+
		<i>Parrya nudicaulis</i> ssp.	
		<i>interior</i>	+
		<i>Poa abbreviata</i>	+
		<i>Polygonum viviparum</i>	+
		<i>Potentilla uniflora</i>	+
		<i>Senecio resedifolius</i>	+
		<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
		<i>Smelowskia borealis</i>	+
		<u>Shrubs and Trees</u>	
		<i>Dryas integrifolia</i> ssp.	
		<i>integrifolia</i>	1
		<i>Salix rotundifolia</i>	1
		<u>Lichens</u>	
<i>Cetraria tilesii</i>	2		
<i>Protoblastenia rupestris</i>	1		
<i>Rhizocarpon chioneum</i>	1		
<i>Cetraria islandica</i>	+		
<i>Cladonia pocillum</i>	+		
<i>Cornicularia aculeata</i>	+		
<i>Dactylina arctica</i> PD+	+		
<i>D. ramulosa</i> PD+	+		
<i>Lecanora epibryon</i>	+		
<i>L. verrucosa</i>	+		
<i>Lecidea decipiens</i>	+		
<i>Rinodina roscida</i>	+		
<i>Solorina bispora</i>	+		
<i>S. saccata</i>	+		
<i>Thamnia subuliformis</i>	+		
<i>Toninia caeruleonigricans</i>	+		
		<u>Bryophytes</u>	
<i>Abietinella abietina</i>	+		
<i>Brachythecium turgidum</i>	+		
<i>Bryoerythrophyllum recurvirostre</i>	+		
<i>Ditrichum flexicaule</i>	+		
<i>Hypnum bambergeri</i>	+		
<i>Rhytidium rugosum</i>	+		
<i>Tortella tortuosa</i>	+		
<i>Tortula ruralis</i>	+		

Site: 47. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 6140 ft. Aspect: 0-15°. 63° 05'N, 125° 54'W. Habitat: unglaciated are; summit of peak. Voucher Numbers: 30958-30986.

	Cover %		Cover %
Bare rock/gravel	89		
Soil	1		
Duff/peat	-		
Lichens	5		
Bryophytes	2		
Herbaceous vegetation	2		
Woody vegetation	1		
		<u>Bryophytes</u>	
		<i>Abietinella abietina</i>	+
		<i>Bryoerythrophyllum recurvirostre</i>	+
		<i>Cirriphyllum cirrosum</i>	+
		<i>Ditrichum flexicaule</i>	+
		<i>Hypnum bambergeri</i>	+
		<i>Orthotrichum rupestre</i>	+
		<i>Tortula ruralis</i>	+
		<u>Herbaceous Plants</u>	
<i>Cetraria tilesii</i>	1		
<i>Buellia papillata</i>	+		
<i>Cetraria nivalis</i>	+	<i>Draba fladnizensis</i>	+
<i>Cladonia pocillum</i>	+	<i>Papaver alboroseum</i>	+
<i>Collema auriculatum</i>	+	<i>Saxifraga caespitosum</i>	+
<i>Dactylina ramulosa</i>	+	<i>Smelowskia borealis</i>	+
<i>Lecanora verrucosa</i>	+		
<i>Lecidea decipiens</i>	+		
<i>Lepraria neglecta</i>	+		
<i>Peltigera canina</i>	+		
<i>Protoblastenia rupestris</i>	+		
<i>Rhizocarpon chioneum</i>	+		
<i>Rinodina roscida</i>	+		
<i>Solorina bispora</i>	+		
<i>Thamnotia subuliformis</i>	+		
<i>Toninia caeruleonigricans</i>	+		
<i>Xanthoria elegans</i>	+		
		<u>Shrubs and Trees</u>	
		<i>Salix rotundifolia</i>	1

Site: 48. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 6050 ft. Aspect: 0-10° W. 63° 05' N, 125° 54' W. Habitat: unglaciated area; west-running ridge. Voucher Numbers: 30987-31027.

	Cover %		Cover %
Bare rock/gravel	75		
Soil	1		
Duff/peat	-		
Lichens	10		
Bryophytes	3		
Herbaceous vegetation	4		
Woody vegetation	7		
		<u>Bryophytes</u>	
		<i>Hylocomium splendens</i>	1
		<i>Rhacomitrium lanuginosum</i>	1
		<i>Abietinella abietina</i>	+
		<i>Dicranum elongatum</i>	+
		<i>D. fuscescens</i>	+
		<i>Ditrichum flexicaule</i>	+
		<i>Encalypta rhaptocarpa</i>	+
		<i>Grimmia apocarpa</i>	+
		<i>Hypnum revolutum</i>	+
		<i>Tomenthypnum nitens</i>	+
		<i>Tortella tortuosa</i>	+
		<i>Tortula ruralis</i>	+
		<u>Herbaceous Plants</u>	
		<i>Androsace chamaejasme</i> ssp.	
		<i>lehmanniana</i>	+
		<i>Anemone parviflora</i>	+
		<i>Carex nardina</i>	+
		<i>Cerastium beeringianum</i> var.	
		<i>beeringianum</i>	+
		<i>Draba macrocarpa</i>	+
		<i>Melandrium apetalum</i> ssp.	
		<i>arcticum</i>	+
		<i>Papaver alboroseum</i>	+
		<i>Polygonum viviparum</i>	+
		<i>Saussurea viscida</i> var. <i>yukonis</i>	+
		<i>Saxifraga oppositifolia</i>	+
		<i>Senecio resedifolius</i>	+
		<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
		<u>Shrubs and Trees</u>	
		<i>Cassiope tetragona</i> ssp.	
		<i>tetragona</i>	3
		<i>Salix rotundifolia</i>	3
		<i>Dryas integrifolia</i> ssp.	
		<i>integrifolia</i>	1

Site: 49. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 4300 ft. Aspect: 0-10°. 63°07'N, 125°45'W. Habitat: glaciated area; col with limestone rubble, Dryas integrifolia community. Voucher Numbers: 31028-21091.

	Cover %		Cover %
Bare rock/gravel	40	<u>Brytophytes</u>	
Soil	2		
Duff/peat	-	Anastrophyllum minutum	+
Lichens	11	Blepharostoma trichophyllum	+
Bryophytes	2	Cephalozia media	+
Herbaceous vegetation	10	Dicranum fuscescens	+
Woody vegetation	35	Distichium capillaceum	+
		Ditrichum flexicaule	+
<u>Algae</u>		Hylocomium splendens	+
		Hypnum bambergi	+
Nostoc sp.	+	H. procerrimum	+
		Meesea uliginosa	+
<u>Lichens</u>		Rhacomitrium lanuginosum	+
		Rhytidium rugosum	+
Cetraria cucullata	3	Tomenthypnum nitens	+
C. nivalis	3	Tortella tortuosa	+
Alectoria ochroleuca	1	Tortula ruralis	+
Rhizocarpon chioneum	1		
Thamnomia subuliformis	1	<u>Herbaceous Plants</u>	
Acarospora glaucocarpa	+		
Baeomyces carneus	+	Androsace chamaejasme ssp.	
Blastenia sinapisperma	+	lehmanniana	1
Cetraria laevigata	+	Carex nardina	1
C. richardsonii	+	C. scirpoidea	1
C. tilesii	+	Hedysarum mackenzii	1
Cladina arbuscula ssp.		Oxytropis campestris ssp.	
beringiana	+	jordalii	1
Cladonia gracilis var. gracilis	+	Anemone parviflora	+
C. pocillum	+	Antennaria friesiana ssp.	
Collema auriculatum	+	compacta	+
Dactylina arctica PD+	+	Astragalus umbellatus	+
Diploschistes canadensis	+	Carex petricosa	+
Lecanora epibryon	+	Chrysanthemum integrifolium	+
L. verrucosa	+	Elymus innovatus	+
Lecidea dicksonii	+	Lesquerella calderi	+
L. lapicida	+	Parrya nudicaulis ssp. interior	+
L. pallida	+	Pedicularis kanei ssp. kanei	+
Lecidella stigmatea	+	P. sudetica ssp. interior	+
Protoblastenia rupestris	+	Saxifraga oppositifolia	+
Rhizocarpon concentricum	+	Senecio rewedifolius	+
Solorina bispora	+	Silene acaulis ssp. acaulis	+
		Thalictrum alpinum	+
		Tofieldia pusilla	+

Site: 49. Continued.

	Cover %	Cover %
<u>Shrubs and Trees</u>		
<i>Dryas integrifolia</i> ssp. <i>integrifolia</i>	20	
<i>Betula nana</i> ssp. <i>exilis</i>	5	
<i>Arctostaphylos rubra</i>	3	
<i>Cassiope tetragona</i>	3	
<i>Potentilla fruticosa</i>	1	
<i>Rhododendron lapponicum</i>	1	
<i>Vaccinium uliginosum</i> ssp. <i>microphyllum</i>	1	
<i>Andromeda polifolia</i>	+	
<i>Picea glauca</i>	+	
<i>Salix reticulata</i> ssp. <i>reticulata</i>	+	

Site: 50. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 4190 ft. Aspect: 0-10°. 63°08'N, 125°45'W. Habitat: glaciated area; col on west-running ridge, Dryas community. Voucher Numbers: 31092-31150.

	Cover %		Cover %
Bare rock/gravel	36	<u>Herbaceous Plants</u>	
Soil	2		
Duff/peat	-	<i>Carex eburnea</i>	1
Lichens	13	<i>C. petricosa</i>	1
Bryophytes	3	<i>C. scirpoidea</i>	1
Herbaceous vegetation	13	<i>Festuca altaica</i>	1
Woody vegetation	33	<i>Androsace chamaejasme</i> ssp.	
		<i>lehmanniana</i>	+
<u>Lichens</u>		<i>Anemone parviflora</i>	+
		<i>Antennaria monocephala</i> var.	
<i>Cetraria cucullata</i>	2	<i>monocephala</i>	+
<i>C. nivalis</i>	2	<i>Arnica alpina</i> ssp.	
<i>C. tilesii</i>	2	<i>angustifolia</i>	+
<i>Cladina arbuscula</i> ssp.		<i>Astragalus umbellatus</i>	+
<i>beringiana</i>	1	<i>Castilleja hyperborea</i>	+
<i>Thamnolia subuliformis</i>	1	<i>Chrysanthemum integrifolium</i>	+
<i>Alectoria ochroleuca</i>	+	<i>Erigeron hyssopifolius</i>	+
<i>Blastenia sinapisperma</i>	+	<i>Hedysarum alpinum</i> ssp.	
<i>Cetraria elenkinii</i>	+	<i>americanum</i>	+
<i>C. laevigata</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>Cladonia pocillum</i>	+	<i>jordalii</i>	+
<i>C. pyxidata</i>	+	<i>Parrya nudicaulis</i> ssp.	
<i>Cornicularia aculeata</i>	+	<i>septentrionalis</i>	+
<i>Dactylina arctica</i> PD-	+	<i>Pedicularis capitata</i>	+
<i>Lecanora polytropa</i>	+	<i>P. kanei</i> ssp. <i>kanei</i>	+
<i>L. verrucosa</i>	+	<i>Polygonum viviparum</i>	+
<i>Lecidea lapicida</i>	+	<i>Saxifraga bronchialis</i> ssp.	
<i>Ochrolechia frigida</i>	+	<i>funstonii</i>	+
<i>Protoblastenia rupestris</i>	+	<i>S. oppositifolia</i>	+
<i>Rhizocarpon umbilicatum</i>	+	<i>Selaginella selaginoides</i>	+
<i>Solorina bispora</i>	+	<i>Senecio lugens</i>	+
<i>S. saccata</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>Verrucaria virens</i>	+	<i>Solidago multiradiata</i> var.	
		<i>multiradiata</i>	+
<u>Bryophytes</u>		<i>Thalictrum alpinum</i>	+
		<i>Tofieldia pusilla</i>	+
<i>Hylocomium splendens</i>	1		
<i>Rhytidium rugosum</i>	1	<u>Shrubs and Trees</u>	
<i>Abietinella abietina</i>	+	<i>Dryas integrifolia</i> ssp.	
<i>Bryum pseudotriquetrum</i>	+	<i>integrifolia</i>	15
<i>Cirriphyllum cirrosum</i>	+	<i>Arctostaphylos rubra</i>	4
<i>Dicranum fuscescens</i>	+	<i>A. uva-ursi</i> var. <i>uva-ursi</i>	3
<i>Ditrichum flexicaule</i>	+	<i>Cassiope tetragona</i> ssp.	
<i>Hypnum bambergeri</i>	+	<i>tetragona</i>	2
<i>Pleurozium shreberi</i>	+	<i>Rhododendron lapponicum</i>	2
<i>Tomenthypnum nitens</i>	+		

Site: 50. Continued.

	Cover %	Cover %
Betula nana ssp. exilis	1	
Juniperus communis ssp. nana	1	
Ledum palustre ssp.		
: groenlandicum	1	
Salix reticulata ssp.		
reticulata	1	
Vaccinium uliginosum ssp.		
alpinum	1	
Andromeda polifolia	+	
Potentilla fruticosa	+	
Vaccinium vitis-idaea ssp.		
minus	+	

Site: 51. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 4960 ft. Aspect: 5-10° NE. 63° 07' N, 125° 43' W. Habitat: unglaciated area; ridge, Dryas - Cassiope tetragona community. Voucher Numbers: 31151-31194.

	Cover %		Cover %
Bare rock/gravel	8	<u>Bryophytes</u>	
Soil	2		
Duff/peat	-	<i>Hylocomium splendens</i>	3
Lichens	12	<i>Dicranum fuscescens</i>	2
Bryophytes	9	<i>Ditrichum flexicaule</i>	2
Herbaceous vegetation	14	<i>Tomenthypnum nitens</i>	1
Woody vegetation	55	<i>Blepharostoma trichophyllum</i>	+
		<i>Ceratodon purpureus</i>	+
<u>Lichens</u>		<i>Distichium capillaceum</i>	+
<i>Cetraria cucullata</i>	2	<i>Encalypta vulgaris</i>	+
<i>C. nivalis</i>	2	<i>Hypnum bambergeri</i>	+
<i>C. tilesii</i>	2	<i>Mnium orthorrhynchum</i>	+
<i>C. richardsonii</i>	1	<i>Myurella julacea</i>	+
<i>Dactylina arctica</i> PD+	1	<i>Tortella tortuosa</i>	+
<i>Rhizocarpon chioneum</i>	1	<u>Herbaceous Plants</u>	
<i>Thamnolia subuliformis</i>	1		
<i>Alectoria ochroleuca</i>	+	<i>Carex misandra</i>	5
<i>Arthroraphis citrinella</i> var. <i>alpina</i>	+	<i>Oxytropis nigrescens</i> ssp. <i>bryophila</i>	1
<i>Cetraria islandica</i>	+	<i>Potentilla biflora</i>	1
<i>C. laevigata</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
<i>Cladina mitis</i>	+	<i>Tofieldia pusilla</i>	1
<i>Cladonia</i> sp.	+	<i>Androsace chamaejasme</i> ssp. <i>lehmanniana</i>	+
<i>C. coccifera</i>	+	<i>Lycopodium selago</i> ssp. <i>selago</i>	+
<i>C. pocillum</i>	+	<i>Oxytropis maydelliana</i>	+
<i>Dactylina ramulosa</i> PD+	+	<i>Parrya nudicaulis</i> ssp. <i>septentrionalis</i>	+
<i>Lecanora polytropa</i>	+	<i>Pedicularis capitata</i>	+
<i>Pertusaria dactylina</i>	+	<i>P. kanei</i> ssp. <i>kanei</i>	+
<i>Placynthium nigrum</i>	+	<i>Senecio resedifolius</i>	+
<i>Polyblastia intercedens</i>	+		
<i>Protoblastenia rupestris</i>	+	<u>Shrubs and Trees</u>	
<i>Solorina bispora</i>	+		
		<i>Dryas integrifolia</i> ssp. <i>integrifolia</i>	30
		<i>Cassiope tetragona</i>	20
		<i>Arctostaphylos rubra</i>	2
		<i>Salix reticulata</i> ssp. <i>reticulata</i>	2
		<i>Andromeda polifolia</i>	1

Site: 52. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Backbone Ranges, Root River Drainage. Date: July 9. Elevation: 4960 ft. Aspect: 0-10° W. 63° 07' N, 125° 43' W. Habitat: unglaciated area; scree community. Voucher Numbers: 31195-31227.

	Cover %		Cover %
Bare rock/gravel	92	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Bryum wrightii	+
Lichens	3	Ditrichum flexicaule	+
Bryophytes	1	Hypnum bambergeri	+
Herbaceous vegetation	3	Tortella fragilis	+
Woody vegetation	1	T. tortuosa	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
Cetraria islandica	+	Androsace chamaejasme ssp.	
C. nivalis	+	lehmanniana	+
C. tilesii	+	Carex misandra	+
Cladonia pocillum	+	C. nardina	+
Cornicularia aculeata	+	Cerastium beeringianum var.	
Dactylina ramulosa PD+	+	beeringianum	+
Lecanora verrucosa	+	Melandrium macrospermum	+
Lecidea decipiens	+	Minuartia rossii	+
Peltigera rufescens	+	Parrya nudicaulis ssp.	
Placynthium nigrum	+	interior	+
Polyblastia intercedens	+	Pedicularis kanei ssp. kanei	+
Rhizocarpon chioneum	+	Saussurea angustifolia	+
R. umbilicatum	+	Saxifraga oppositifolia	+
Rinodina roscida	+	Senecio resedifolius	+
Solorina bispora	+	Silene acaulis ssp. acaulis	+
S. saccata	+	Smelowskia borealis	+
Staurothele sp.	+		
S. bacilligera	+	<u>Shrubs and Trees</u>	
Thamnolia subuliformis	+		
Verrucaria virens	+	Dryas integrifolia ssp.	
		integrifolia	+
		Salix rotundifolia	+

Site: 53. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Canyon Ranges, Root River Drainage. Date: July 9. Elevation: 4100 ft. Aspect: 0-10° E. 63° 05' N, 125° 09' W. Habitat: glaciated area; col of ridge, Dryas community. Voucher Numbers: 31228-31285.

	Cover %		Cover %
Bare rock/gravel	31	Tetraplodon mnioides	+
Soil	4	Tomenthypnum nitens	+
Duff/peat	-	Tortella fragilis	+
Lichens	18	T. tortuosa	+
Bryophytes	3		
Herbaceous vegetation	15	<u>Herbaceous Plants</u>	
Woody vegetation	29		
		Carex membranacea	2
<u>Lichens</u>		C. misandra	2
Cetraria cucullata	5	C. scirpoidea	2
C. nivalis	3	Lupinus arcticus	1
C. tilesii	3	Potentilla biflora	1
Alectoria ochroleuca	2	Saxifraga oppositifolia	1
Asahinea chrysantha	1	Androsace chamaejasme ssp.	
Cetraria laevigata	1	lehmanniana	+
Cornicularia divergens	1	Anemone parviflora	+
Candelariella aurella	+	Arnica alpina ssp. angustifolia	+
Cladonia pocillum	+	Carex eburnea	+
Collema auriculatum	+	Chrysanthemum integrifolium	+
Dactylina arctica PD-	+	Juncus drummondii	+
D. ramulosa PD+	+	J. triglumis ssp. albescens	+
Lecanora badia	+	Oxytropis maydelliana	+
L. epibryon	+	Parrya nudicaulis ssp. interior	+
L. verrucosa	+	Pedicularis kanei ssp. kanei	+
Lecidea lapicida	+	P. sudetica ssp. interior	+
L. marginata	+	Pinguicula vulgaris ssp.	
Ochrolechia frigida	+	vulgaris	+
Physcia sciastra	+	Senecio resedifolius	+
Physconia muscigena	+	Silene acaulis ssp. acaulis	+
Protoblastenia rupestris	+	Thalictrum alpinum	+
Rhizocarpon chioneum	+	Tofieldia coccinea	+
R. geographicum	+	T. pusilla	+
Sporastatia testudinea	+		
Thamnolia subuliformis	+	<u>Shrubs and Trees</u>	
Xanthoria elegans	+	Dryas integrifolia ssp.	
		integrifolia	20
<u>Bryophytes</u>		Cassiope tetragona	2
Brachythecium turgidum	+	Rhododendron lapponicum	2
Campylium stellatum	+	Salix alaxensis ssp. alaxensis	1
Dicranum fuscescens	+	S. arctica ssp. arctica	1
Distichium capillaceum	+	S. reticulata ssp. reticulata	1
Ditrichum flexicaule	+	Arctostaphylos rubra	+
Hypnum procerrimum	+	Picea glauca	+
Oncophorus wahlenbergii	+	Potentilla fruticosa	+
Orthothecium chryseum	+		

Site: 54. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Canyon Ranges, Root River Drainage. Date: July 9. Elevation: 4100 ft. Aspect: 5-15°W. 63°05'N, 125°09'W. Habitat: glaciated area; rocky limestone slope. Voucher Numbers: 31286-31301.

	Cover %		Cover %
Bare rock/gravel	66	<u>Bryophytes</u>	
Soil	8		
Duff/peat	-	Tortella tortuosa	+
Lichens	4		
Bryophytes	1	<u>Herbaceous Plants</u>	
Herbaceous vegetation	11		
Woody vegetation	10	Carex nardina	4
		C. glacialis	2
<u>Lichens</u>		C. petricosa	2
Cetraria tilesii	1	Elymus innovatus	1
Haematomma lapponicum	+	Saxifraga oppositifolia	1
Lecanora epibryon	+	Androsace chamaejasme ssp.	
L. rupicola	+	lehmanniana	+
Lecidea lapicida	+	Draba sp.	+
L. marginata	+	Pedicularis kanei ssp. kanei	+
Rhizocarpon chioneum	+		
R. geographicum	+	<u>Shrubs and Trees</u>	
R. umbilicatum	+	Dryas integrifolia ssp.	
Sporastatia testudinea	+	integrifolia	10
Xanthoria elegans	+		

Site: 55. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4400 ft. Aspect: 0-5°. 63° 24'N, 123° 14'W. Habitat: glaciated area; exposed ridge with Silurian sandstone and Precambrian erratics. Voucher Numbers: 31302-31366.

	Cover %		Cover %
Bare rock/gravel	71	<u>Bryophytes</u>	
Soil	2		
Duff/peat	-	<i>Ceratodon purpureus</i>	+
Lichens	16	<i>Polytrichum piliferum</i>	+
Bryophytes	1	<i>Racomitrium canescens</i>	+
Herbaceous vegetation	8		
Woody vegetation	2	<u>Herbaceous Plants</u>	
		<u>Lichens</u>	
		<i>Saxifraga tricuspidata</i>	1
		<i>Silene acaulis</i> ssp. <i>acaulis</i>	1
<i>Alectoria ochroleuca</i>	1	<i>Anemone drummondii</i>	+
<i>Cetraria cucullata</i>	1	<i>Arnica alpina</i> ssp.	
<i>C. nivalis</i>	1	<i>angustifolia</i>	+
<i>Hypogymnia intestiniformis</i>	1	<i>Campanula uniflora</i>	+
<i>Lecidea armeniaca</i>	1	<i>Carex microchaeta</i>	+
<i>Rhizocarpon geographicum</i>	1	<i>C. nardina</i>	+
<i>Sporastatia testudinea</i>	1	<i>Draba nivalis</i>	+
<i>Agrophora rigida</i>	+	<i>Festuca brachyphylla</i>	+
<i>Alectoria chalybeiformis</i>	+	<i>Hierochloe alpina</i>	+
<i>A. minuscula</i>	+	<i>Lupinus arcticus</i>	+
<i>A. nigricans</i>	+	<i>Minuartia rubella</i>	+
<i>A. pubescens</i>	+	<i>Oxytropis campestris</i> ssp.	
<i>Caloplaca stillicidiorum</i>	+	<i>gracilis</i>	+
<i>Cetraria commixta</i>	+	<i>Papaver lapponicum</i> ssp.	
<i>C. tilesii</i>	+	<i>occidentale</i>	+
<i>Cladonia pocillum</i>	+	<i>Poa glauca</i>	+
<i>Cornicularia aculeata</i>	+	<i>Polemonium boreale</i> ssp. <i>boreale</i>	+
<i>C. divergens</i>	+	<i>Potentilla hyparctica</i>	+
<i>Dactylina ramulosa</i> PD+	+	<i>P. uniflora</i>	+
<i>Lecanora badia</i>	+	<i>Senecio lugens</i>	+
<i>L. caesiocinerea</i>	+	<i>Smelowskia calycina</i>	+
<i>L. cinerea</i>	+	<i>Taraxacum alaskanum</i>	+
<i>L. polytropa</i>	+		
<i>Lecidea aenea</i>	+	<u>Shrubs and Trees</u>	
<i>L. atrobrunnea</i>	+		
<i>L. dicksonii</i>	+	<i>Dryas integrifolia</i> ssp.	
<i>L. lapicida</i>	+	<i>integrifolia</i>	1
<i>Peltigera spuria</i>	+	<i>Vaccinium uliginosum</i> ssp.	
<i>Rhizocarpon eupetraeoides</i>	+	<i>alpinum</i>	+
<i>Solorina crocea</i>	+		
<i>Stereocaulon alpinum</i>	+		
<i>Thamnolia subuliformis</i>	+		
<i>Umbilicaria cylindrica</i>	+		
<i>U. hyperborea</i>	+		

Site: 56. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4400 ft. Aspect: 5° E. 63° 24' N, 123° 14' W. Habitat: glaciated area; moist slope with some Silurian sandstone, Carex stylosa community. Voucher Numbers: 31367-31422.

	Cover %		Cover %
Bare rock/gravel	6	Sphagnum warnstorffii	3
Soil	2	Aulacomnium turgidum	2
Duff/peat	2	Ptilidium ciliare	2
Lichens	23	Sphagnum fuscum	2
Bryophytes	25	Pogonatum alpinum	1
Herbaceous vegetation	28	Rhacomitrium lanuginosum	1
Woody vegetation	14	Anastrophyllum minutum	+
		Andreaea rupestris	+
		Dicranum elongatum	+
		D. fuscescens	+
		D. spadiceum	+
		Ditrichum flexicaule	+
		Gymnomitrium coralloides	+
		Pleurozium schreberi	+
		Rhytidium rugosum	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
Cetraria laevigata	5	Carex stylosa	20
Alectoria ochroleuca	2	Eriophorum vaginatum ssp.	
Cetraria cucullata	2	vaginatum	3
Cladina arbuscula ssp.		Hierochloe alpina	2
beringiana	2	Luzula tundricola	1
C. rangiferina	2	Cardamine bellidifolia	+
Cetraria nivalis	1	Lycopodium selago ssp. selago	+
C. richardsonii	1	Rubus chamaemorus	+
Stereocaulon alpinum	1	Senecio lugens	+
Alectoria nigricans	+	Stellaria edwardsii	+
Cetraria cf. hepatizon	+		
Cladonia amaurocraea	+	<u>Shrubs and Trees</u>	
C. coccifera	+	Vaccinium uliginosum ssp.	
C. gracilis var. gracilis	+	microphyllum	5
C. metacorallifera	+	Salix glauca asp. acutifolia	3
C. pleurota	+	Vaccinium vitis-idaea ssp. minus	2
Coriscium viride	+	Dryas sp.	1
Dactylina arctica PD-	+	Salix pulchra	1
Lecanora occidentalis	+	Andromeda polifolia	1
L. polytropa	+	Cassiope tetragona ssp.	
Lecidea lapicida	+	tetragona	+
L. macrocarpa	+	Empetrum nigrum ssp.	
Ochrolechia frigida	+	hermaphroditum	+
Parmelia alpicola	+	Salix reticulata ssp.	
Rhizocarpon geographicum	+	reticulata	+
R. macrosporum	+		
Umbilicaria cylindrica	+		
U. deusta	+		
U. hyperborea	+		
U. proboscidea	+		
<u>Bryophytes</u>			
Polytrichum juniperinum	6		
Hylocomium splendens	4		

Site: 57. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4500 ft. Aspect: 45° E. 63° 24' N, 123° 14' W. Habitat: glaciated area; steep slope with large blocks of Silurian sandstone. Voucher Numbers: 31423-31464.

	Cover %		Cover %
Bare rock/gravel	10	<i>Cetraria</i> cf. <i>hepatizon</i>	+
Soil	-	<i>C. tilesii</i>	+
Duff/peat	-	<i>Cladonia coccifera</i>	+
Lichens	69	<i>C. gracilis</i> var. <i>gracilis</i>	+
Bryophytes	12	<i>C. metacorallifera</i>	+
Herbaceous vegetation	3	<i>C. pleurota</i>	+
Woody vegetation	6	<i>Cornicularia divergens</i>	+
		<i>Hypogymnia intestiniformis</i>	+
		<i>Lecidea dicksonii</i>	+
<u>Algae</u>		<i>Lepraria neglecta</i>	+
<i>Trentepohlia</i> sp.	+	<i>Parmelia centrifuga</i>	+
		<i>P. omphalodes</i>	+
<u>Lichens</u>		<i>Rhizocarpon chioneum</i>	+
<i>Lecidea</i> sp.	10		
<i>Rhizocarpon eupetraeoides</i>	10	<u>Bryophytes</u>	
<i>Agyrophora rigida</i>	8	<i>Rhacomitrium lanuginosum</i>	5
<i>Cladina alpestris</i>	6	<i>Pogonatum urnigerum</i>	2
<i>Umbilicaria proboscidea</i>	5	<i>Ptilidium ciliare</i>	2
<i>Rhizocarpon cinereovirens</i>	5	<i>Andreaea rupestris</i>	1
<i>Parmelia alpicola</i>	4	<i>Chandonanthus setiformis</i>	1
<i>Cetraria cucullata</i>	3	<i>Anastrophyllum minutum</i>	+
<i>C. laevigata</i>	3	<i>Dicranum fuscescens</i>	+
<i>C. nivalis</i>	3	<i>Ditrichum flexicaule</i>	+
<i>Cladina arbuscula</i> ssp. <i>beringiana</i>	3	<i>Scapania undulata</i>	+
<i>Dactylina arctica</i> PD-	2	<i>Tritomaria quinquedentata</i>	+
<i>Alectoria ochroleuca</i>	1		
<i>Cladina rangiferina</i>	1	<u>Herbaceous Plants</u>	
<i>Cladonia amaurocraea</i>	1	<i>Carex</i> sp.	+
<i>Lecidea atrobrunnea</i>	1	<i>Draba</i> sp.	+
<i>Umbilicaria cylindrica</i>	1	<i>Hierochloe alpina</i>	+
<i>U. hyperborea</i>	1	<i>Luzula</i> sp.	+
<i>Xanthoria elegans</i>	1	<i>Lycopodium selago</i> ssp. <i>selago</i>	+
<i>Alectoria nigricans</i>	+		
<i>A. pubescens</i>	+	<u>Shrubs and Trees</u>	
<i>Baeomyces carneus</i>	+	<i>Cassiope tetragona</i>	5
		<i>Vaccinium uliginosum</i> ssp. <i>alpinum</i>	+
		<i>V. vitis-idaea</i> ssp. <i>minus</i>	+

Site: 58. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 5050 ft. Aspect: 5-10° N. 63° 23' N, 123° 12' W. Habitat: glaciated area; large blocks of Mt. Clarke Formation sandstone interspersed with soil patches, Alectoria ochroleuca - Cetraria cucullata community. Voucher Numbers: 31465-31507.

	Cover %		Cover %
Bare rock/gravel	5	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Racomitrium lanuginosum	2
Lichens	83	Ptilidium ciliare	1
Bryophytes	4	Aulacomnium turgidum	+
Herbaceous vegetation	6	Chandonanthus setiformis	+
Woody vegetation	1	Dicranum elongatum	+
		D. fuscescens	+
<u>Lichens</u>		Lophozia sp.	+
		L. quadriloba	+
Alectoria ochroleuca	15	Pogonatum alpinum var. alpinum	+
Cetraria cucullata	15	Polytrichum piliferum	+
Rhizocarpon eupetraeoides	6		
Agyrophora rigida	5	<u>Herbaceous Plants</u>	
Cetraria laevigata	5		
C. nivalis	5	Carex microchaeta	2
Lecidea armeniaca	5	Hierochloe alpina	1
Sporastatia testudinea	5	Luzula tundricola	1
Rhizocarpon geographicum	4	Artemisia arctica ssp. arctica	+
Umbilicaria proboscidea	4	Lycopodium selago ssp. selago	+
Cladina arbuscula ssp.		Potentilla elegans	+
beringiana	3	P. hyparctica	+
Dactylina arctica PD-	2	Senecio lugens	+
Cetraria tilesii	1		
Cladina aberrans	1	<u>Shrubs and Trees</u>	
C. alpestris	1		
Umbilicaria cylindrica	1	Cassiope tetragona ssp.	
U. deusta	1	tetragona	+
U. hyperborea	1	Vaccinium uliginosum ssp.	
Cetraria commixta	+	microphyllum	+
Cladina rangiferina	+	V. vitis-idaea ssp. minus	+
Cladonia amaurocraea	+		
C. coccifera	+		
C. gracilis var. dilatata	+		
C. metacorallifera	+		
C. squamosa	+		
Cornicularia divergens	+		
Hypogymnia intestiniformis	+		
Parmelia centrifuga	+		
Rhizocarpon badioatrum	+		

Site: 59. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4700 ft. Aspect: 5-10° S. 63° 23' N, 123° 12' W. Habitat: glaciated area; wet meadow with a few sandstone blocks, Eriophorum vaginatum community. Voucher Numbers: 31508-31538.

	Cover %		Cover %
Bare rock/gravel	1	<u>Bryophytes</u>	
Soil	-		
Duff/peat	1	Hylocomium splendens	8
Lichens	9	Sphagnum rubellum	8
Bryophytes	26	Polytrichum juniperinum	4
Herbaceous vegetation	55	Aulacomnium turgidum	2
Woody vegetation	8	Drepanocladus uncinatus	2
		Ptilidium ciliare	2
<u>Lichens</u>		Dicranum elongatum	+
		Sphagnum angustifolium	+
Cetraria cucullata	2		
C. laevigata	2	<u>Herbaceous Plants</u>	
Dactylina arctica	2		
Coriscium viride	1	Eriophorum vaginatum ssp.	
Agyrophora rigida	+	vaginatum	37
Cladonia amaurocraea	+	Carex stylosa	15
C. cenotea	+	Hierochloe alpina	2
C. coccifera	+	Potentilla hyparctica	+
C. gonecha	+	Senecio lugens	+
C. gracilis var. gracilis	+		
Collema auriculatum	+	<u>Shrubs and Trees</u>	
Lecidea atrobrunnea	+		
L. macrocarpa	+	Salix reticulata ssp.	
Lepraria neglecta	+	reticulata	5
Peltigera leucophlebia	+	S. phylicifolia ssp.	
Rhizocarpon geographicum	+	planifolia	3
Spilonema revertens	+		
Umbilicaria deusta	+		

Site: 60. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4400 ft. Aspect: 5-10° S. 63°23'N, 123°12'W. Habitat: glaciated area; large Mt. Clarke Formation sandstone blocks and soil, lichen community. Voucher Numbers: 31539-31602.

	Cover %		Cover %
Bare rock/gravel	5	<i>Lepraria neglecta</i>	+
Soil	-	<i>Parmelia alpicola</i>	+
Duff/peat	-	<i>P. omphalodes</i>	+
Lichens	40	<i>Peltigera apthosa</i>	+
Bryophytes	8	<i>Physcia endococcinea</i>	+
Herbaceous vegetation	13	<i>Rhizocarpon badioatrum</i>	+
Woody vegetation	24	<i>R. crystalligenum</i>	+
		<i>R. eupetraeoides</i>	+
		<i>Thamnolia subuliformis</i>	+
<u>Lichens</u>			
<i>Cetraria cucullata</i>	10	<u>Bryophytes</u>	
<i>Alectoria ochroleuca</i>	5	<i>Racomitrium lanuginosum</i>	2
<i>Cetraria nivalis</i>	5	<i>Hylocomium splendens</i>	1
<i>Agyrophora rigida</i>	4	<i>Ptilidium ciliare</i>	1
<i>Sporastatia testudinea</i>	4	<i>Rhytidium rugosum</i>	1
<i>Cetraria laevigata</i>	3	<i>Chandonanthus setiformis</i>	+
<i>Lecidea lapicida</i>	3	<i>Dicranum elongatum</i>	+
<i>Cetraria richardsonii</i>	1	<i>D. fuscescens</i>	+
<i>Cladina alpestris</i>	1	<i>Pogonatum alpinum</i> var. <i>alpinum</i>	+
<i>Dactylina arctica</i> PD-	1	<i>Pohlia nutans</i>	+
<i>Haematomma lapponicum</i>	1	<i>Polytrichum juniperinum</i>	+
<i>Parmelia centrifuga</i>	1	<i>P. piliferum</i>	+
<i>Umbilicaria cylindrica</i>	1	<i>Scapania undulata</i>	+
<i>U. hyperborea</i>	1		
<i>Alectoria minuscula</i>	+	<u>Herbaceous Plants</u>	
<i>Baeomyces carneus</i>	+	<i>Carex stylosa</i>	5
<i>Cetraria</i> cf. <i>elenkinii</i>	+	<i>Lupinus arcticus</i>	1
<i>C.</i> cf. <i>hepatizon</i>	+	<i>Potentilla hyparctica</i>	1
<i>C.</i> cf. <i>nigricans</i>	+	<i>Antennaria friesiana</i> ssp.	
<i>C. tilesii</i>	+	<i>friesiana</i>	+
<i>Cladina arbuscula</i> ssp.		<i>Arnica alpina</i> ssp. <i>angustifolia</i>	+
<i>beringiana</i>	+	<i>Artemisia arctica</i> ssp. <i>arctica</i>	+
<i>C. mitis</i>	+	<i>Campanula uniflora</i>	+
<i>C. rangiferina</i>	+	<i>Hierochloe alpina</i>	+
<i>Cladonia amaurocraea</i>	+	<i>Luzula tundricola</i>	+
<i>C. coccifera</i>	+	<i>Lycopodium selaga</i> ssp. <i>selago</i>	+
<i>C. gracilis</i> var. <i>dilatata</i>	+	<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
<i>C. macrophyllodes</i>	+	<i>Polygonum viviparum</i>	+
<i>C. metacorallifera</i>	+	<i>Pyrola minor</i>	+
<i>C. pyxidata</i>	+	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>C. squamosa</i>	+	<i>Stellaria edwardsii</i>	+
<i>Cornicularia divergens</i>	+		
<i>Lecanora polytropa</i>	+		
<i>Lecidea armeniaca</i>			

Site: 60. Continued.

	Cover %	Cover %
<u>Shrubs and Trees</u>		
Arctostaphylos rubra	5	
Dryas octopetala var. octopetala	5	
Vaccinium uliginosum ssp. microphyllum	5	
V. vitis-idaea ssp. minus	5	
Betula nana ssp. exilis	1	
Salix reticulata ssp. reticulata	1	
Empetrum nigrum ssp. hermaphroditum	+	
Ledum palustre ssp. decumbens	+	
Salix glauca ssp. acutifolia	+	
S. phylicifolia ssp. planifolia	+	

Site: 61. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, Cap Mountain. Date: July 10. Elevation: 4300 ft. Aspect: 5-10° S. 63° 23' N, 123° 11' W. Habitat: glaciated area; large Mt. Clarke Formation sandstone blocks and soil, lichen community. Voucher Numbers: 31603-31659.

	Cover %		Cover %
Bare rock/gravel	5	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	<i>Hylocomium splendens</i>	3
Lichens	62	<i>Rhytidium rugosum</i>	2
Bryophytes	7	<i>Polytrichum juniperinum</i>	1
Herbaceous vegetation	11	<i>Andreaea rupestris</i>	+
Woody vegetation	14	<i>Dicranum acutifolium</i>	+
		<i>D. elongatum</i>	+
		<i>D. fuscescens</i>	+
		<i>Grimmia affinis</i>	+
		<i>Hypnum revolutum</i>	+
		<i>H. vaucheri</i>	+
		<i>Racomitrium lanuginosum</i>	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
<i>Cetraria cucullata</i>	10	<i>Carex microchaeta</i>	5
<i>Alectoria ochroleuca</i>	8	<i>Hierochloe alpina</i>	1
<i>Cetraria laevigata</i>	8	<i>Lupinus arcticus</i>	1
<i>Lecanora rupicola</i>	7	<i>Poa glauca</i>	1
<i>Rhizocarpon geographicum</i>	5	<i>Arnica alpina</i> ssp. <i>angustifolia</i>	+
<i>Cetraria nivalis</i>	4	<i>Artemisia arctica</i> ssp. <i>arctica</i>	+
<i>Agyrophora rigida</i>	3	<i>Campanula uniflora</i>	+
<i>Rhizocarpon macrosporum</i>	3	<i>Draba</i> sp.	+
<i>Sporastatia testudinea</i>	3	<i>Potentilla biflora</i>	+
<i>Cladina arbuscula</i> ssp. <i>beringiana</i>	1	<i>Saxifraga tricuspidata</i>	+
<i>Haematomma lapponicum</i>	1	<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
<i>Parmelia saxatilis</i>	1	<i>Stellaria edwardsii</i>	+
<i>Thamnolia subuliformis</i>	1		
<i>Umbilicaria cylindrica</i>	1	<u>Shrubs and Trees</u>	
<i>U. hyperborea</i>	1	<i>Salix glauca</i> ssp. <i>acutifolia</i>	3
<i>U. polyphylla</i>	1	<i>Betula nana</i> ssp. <i>exilis</i>	2
<i>Alectoria nigricans</i>	+	<i>Salix arbusculoides</i>	2
<i>A. pubescens</i>	+	<i>S. reticulata</i> ssp. <i>reticulata</i>	2
<i>Baeomyces carneus</i>	+	<i>Vaccinium uliginosum</i> ssp. <i>alpinum</i>	2
<i>Buellia papillata</i>	+	<i>Potentilla fruticosa</i>	1
<i>Cetraria commixta</i>	+	<i>Vaccinium vitis-idaea</i> ssp. <i>minus</i>	1
<i>C. tilesii</i>	+	<i>Empetrum nigrum</i> ssp. <i>hermaphroditum</i>	+
<i>Cladina alpestris</i>	+		
<i>Cladonia amaurocraea</i>	+		
<i>C. gracilis</i> var. <i>dilatata</i>	+		
<i>C. pocillum</i>	+		
<i>C. pyxidata</i>	+		
<i>Dactylina arctica</i> PD-	+		
<i>Hypogymnia intestiniformis</i>	+		
<i>Lecanora epibryon</i>	+		
<i>Lecidea auriculata</i>	+		
<i>Ochrolechia geminipara</i>	+		
<i>Parmelia alpicola</i>	+		
<i>Rhizocarpon badioatrum</i>	+		

Site: 62. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Wrigley. Date: July 11. Elevation: 500 ft. Aspect: 0°. 63°13'N, 123°27'W. Habitat: glaciated area; Populus tremuloides (up to 5" dbh) community on sandy soil in formerly burned area. Voucher Numbers: 31660-31739.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	10	<i>Brachythecium salebrosum</i>	+
Lichens	3	<i>Bryum creberrimum</i>	+
Bryophytes	1	<i>Ceratodon purpureus</i>	+
Herbaceous vegetation	3	<i>Hylocomium splendens</i>	+
Woody vegetation	83	<i>Polytrichum juniperinum</i>	+
		<i>Ptilidium ciliare</i>	+
<u>Lichens</u>		<i>Pylaisiella polyantha</i>	+
<i>Alectoria glabra</i>	+	<u>Herbaceous Plants</u>	
<i>A. simplicior</i>	+		
<i>Caloplaca cerina</i>	+	<i>Anemone multifida</i>	+
<i>C. holocarpa</i>	+	<i>Cornus canadensis</i>	+
<i>Cetraria halei</i>	+	<i>Epilobium angustifolium</i> ssp.	
<i>C. nivalis</i>	+	<i>angustifolium</i>	+
<i>C. pinastri</i>	+	<i>Fragaria virginiana</i> ssp. <i>glauca</i>	+
<i>Cladina alpestris</i>	+	<i>Geocaulon lividum</i>	+
<i>C. mitis</i>	+	<i>Galium boreale</i>	+
<i>C. rangiferina</i>	+	<i>Linnaea borealis</i> ssp.	
<i>Cladonia bacillaris</i>	+	<i>americana</i>	+
<i>C. botrytes</i>	+	<i>Pyrola secunda</i> ssp. <i>secunda</i>	+
<i>C. cariosa</i>	+	<i>Zygadenus elegans</i>	+
<i>C. cornuta</i>	+		
<i>C. gracilis</i> var. <i>dilatata</i>	+	<u>Shrubs and Trees</u>	
<i>C. gracilis</i> var. <i>gracilis</i>	+		
<i>C. multififormis</i>	+	<i>Populus tremuloides</i>	57
<i>C. pyxidata</i>	+	<i>Alnus crispa</i> ssp. <i>crispa</i>	10
<i>C. subulata</i>	+	<i>Arctostaphylos uva-ursi</i> var.	
<i>Evernia mesomorpha</i>	+	<i>uva-ursi</i>	10
<i>Hypogymnia physodes</i>	+	<i>Picea glauca</i>	1
<i>Lecanora allophana</i>	+	<i>Pinus divaricata</i>	1
<i>L. coilocarpa</i>	+	<i>Salix glauca</i> ssp. <i>acutifolia</i>	1
<i>L. varia</i>	+	<i>Empetrum nigrum</i> ssp.	
<i>Parmelia septentrionalis</i>	+	<i>hermaphroditum</i>	+
<i>P. sulcata</i>	+	<i>Rosa acicularis</i>	+
<i>Parmeliopsis hyperopta</i>	+	<i>Shepherdia canadensis</i>	+
<i>Peltigera aphthosa</i>	+	<i>Vaccinium vitis-idaea</i> ssp.	
<i>P. leucophlebia</i>	+	<i>minus</i>	+
<i>P. rufescens</i>	+	<i>Viburnum edule</i>	+
<i>Physcia aioplia</i>	+		
<i>Pyrenula leucoplaca</i>	+		
<i>Ramalina minuscula</i>	+		
<i>Rinodina archaea</i>	+		
<i>Stereocaulon tomentosum</i>	+		
<i>Usnea glabrescens</i>	+		
<i>U. sorediifera</i>	+		

Site: 65. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Wrigley, Hodgson Creek. Date: July 11. Elevation: 400 ft. Aspect: 10° NE. 63° 13' N, 123° 29' W. Habitat: glaciated area; Picea mariana community. Voucher Numbers: 31867-31923.

	Cover %		Cover %
Bare rock/gravel	-	<i>Distichium capillaceum</i>	+
Soil	-	<i>D. inclinatum</i>	+
Duff/peat	2	<i>Meesea uliginosa</i>	+
Lichens	3	<i>Oncophorus wahlenbergii</i>	+
Bryophytes	43	<i>Plagiomnium medium</i>	+
Herbaceous vegetation	6	<i>Ptilidium ciliare</i>	+
Woody vegetation	46		
		<u>Herbaceous Plants</u>	
<u>Lichens</u>		<i>Equisetum scirpoides</i>	2
<i>Usnea glabrescens</i>	1	<i>Amerorchis rotundifolia</i>	+
<i>Alectoria glabra</i>	+	<i>Carex vaginata</i>	+
<i>Caloplaca holocarpa</i>	+	<i>Cornus canadensis</i>	+
<i>Cetraria pinastri</i>	+	<i>Cypripedium passerinum</i>	+
<i>Cladina mitis</i>	+	<i>Hedysarum alpinum</i> ssp.	
<i>C. rangiferina</i>	+	<i>americanum</i>	+
<i>Cladonia amaurocraea</i>	+	<i>Mitella pentandra</i>	+
<i>C. coniocraea</i>	+	<i>Pedicularis labradorica</i>	+
<i>C. gracilis</i> var. <i>dilatata</i>	+	<i>Pinguicula vulgaris</i> ssp.	
<i>C. multiformis</i>	+	<i>vulgaris</i>	+
<i>Evernia mesomorpha</i>	+	<i>Platanthera obtusata</i>	+
<i>Hypogymnia physodes</i>	+	<i>Pyrola asarifolia</i> var. <i>purpurea</i>	+
<i>Lecanora allophana</i>	+	<i>P. grandiflora</i>	+
<i>L. varia</i>	+	<i>P. secunda</i> ssp. <i>secunda</i>	+
<i>Lecidea glomerulosa</i>	+	<i>Tofieldia pusilla</i>	+
<i>Parmelia sulcata</i>	+		
<i>Peltigera aphthosa</i>	+	<u>Shrubs and Trees</u>	
<i>Peltigera horizontalis</i> or <i>P. polydactyla</i>	+	<i>Picea mariana</i>	19
<i>Ramalina minuscula</i>	+	<i>Vaccinium vitis-idaea</i> ssp.	
<i>R. pollinaria</i>	+	<i>minus</i>	7
<i>Rinodina archaea</i>	+	<i>Alnus crispa</i> ssp. <i>crispa</i>	5
<i>Usnea glabrescens</i>	+	<i>Arctostaphylos rubra</i>	5
		<i>Ledum palustre</i> ssp.	
<u>Bryophytes</u>		<i>groenlandicum</i>	4
<i>Hylocomium splendens</i>	20	<i>Larix laricina</i>	3
<i>Tomenthypnum nitens</i>	20	<i>Betula papyrifera</i> ssp. <i>humilis</i>	1
<i>Aulacomnium acuminatum</i>	+	<i>Salix</i> sp.	1
<i>A. palustre</i>	+	<i>Shepherdia canadensis</i>	1
<i>Campylium hispidulum</i> var. <i>sommerfeltii</i>	+	<i>Viburnum edule</i>	+
<i>Cinclidium stygium</i>	+		
<i>Dicranum fuscescens</i>	+		

Site: 66. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Wrigley, 1/3 way up slope from Mackenzie River to townsite. Date: July 11. Elevation: 400 ft. Aspect: 0°. 63° 13'N, 123° 27'W. Habitat: glaciated area; mixed woods on terrace. Voucher Numbers: 31924-31990.

	Cover %		Cover %
Bare rock/gravel	-	<i>Abietinella abietina</i>	+
Soil	-	<i>Aulacomnium palustre</i>	+
Duff/peat	2	<i>Bryum pseudotriquetrum</i>	+
Lichens	3	<i>Dicranum fuscescens</i>	+
Bryophytes	8	<i>Drepanocladus uncinatus</i>	+
Herbaceous vegetation	14	<i>Eurhynchium pulchellum</i>	+
Woody vegetation	73	<i>Ptilidium ciliare</i>	+
		<i>Pylaisiella polyantha</i>	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
<i>Evernia mesomorpha</i>	1	<i>Geocaulon lividum</i>	6
<i>Alectoria glabra</i>	+	<i>Equisetum scirpoides</i>	4
<i>Buellia punctata</i>	+	<i>Amerorchis rotundifolia</i>	+
<i>Calicium populneum</i>	+	<i>Cornus canadensis</i>	+
<i>Caloplaca holocarpa</i>	+	<i>Epilobium angustifolium</i> ssp.	+
<i>Gandelariella</i> sp.	+	<i>angustifolium</i>	+
<i>Cetraria pinastri</i>	+	<i>Linnaea borealis</i> ssp.	+
<i>Cladonia arbuscula</i> ssp.	+	<i>americana</i>	+
<i>berengeriana</i>	+	<i>Mitella nuda</i>	+
<i>Cladonia coniocraea</i>	+	<i>Platanthera obtusata</i>	+
<i>C. fimbriata</i>	+	<i>Pyrola asarifolia</i> var.	+
<i>C. pocillum</i>	+	<i>purpurea</i>	+
<i>C. subulata</i>	+	<i>P. grandiflora</i>	+
<i>Hypogymnia physodes</i>	+	<i>P. secunda</i> ssp. <i>secunda</i>	+
<i>Lecanora allophana</i>	+		
<i>L. varia</i>	+	<u>Shrubs and Trees</u>	
<i>Lecidea nylanderii</i>	+	<i>Picea glauca</i>	22
<i>Parmelia septentrionalis</i>	+	<i>Betula papyrifera</i> ssp. <i>humilis</i>	15
<i>P. subargentifera</i>	+	<i>Alnus crispa</i> ssp. <i>crispa</i>	10
<i>Parmelia sulcata</i>	+	<i>A. incana</i> ssp. <i>tenuifolia</i>	10
<i>Parmeliopsis ambigua</i>	+	<i>Vaccinium vitis-idaea</i> ssp.	
<i>P. hyperopta</i>	+	<i>minus</i>	5
<i>Peltigera horizontalis</i>	+	<i>Populus balsamifera</i>	4
<i>P. leucophlebia</i>	+	<i>Salix glauca</i> ssp. <i>acutifolia</i>	2
<i>Ramalina</i> sp.	+	<i>Cornus stolonifera</i>	1
<i>Rinodina archaea</i>	+	<i>Rosa acicularis</i>	1
<i>R. turfacea</i>	+	<i>Shepherdia canadensis</i>	1
<i>Usnea alpina</i>	+	<i>Ledum palustre</i> ssp.	
<i>U. glabrescens</i>	+	<i>groenlandicum</i>	+
<i>U. soreidiifera</i>	+	<i>Viburnum edule</i>	+

Site: 67. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Camsell Range, 10 miles SW of Wrigley. Date: July 12. Elevation: 2700 ft. Aspect: 0-5°. 63°07'N, 123°40'W. Habitat: glaciated area; barren summit with limestone rubble and small slabs, Dryas community. Voucher Numbers: 31991-32035.

	Cover %		Cover %
Bare rock/gravel	54	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Ceratodon purpureus	+
Lichens	9	Ditrichum flexicaule	+
Bryophytes	1	Hypnum vaucheri	+
Herbaceous vegetation	13	Tortella fragilis	+
Woody vegetation	22	T. tortuosa	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
Cetraria tilesii	2	Carex glacialis	10
C. nivalis	1	Antennaria friesiana ssp.	
Rhizocarpon geographicum	1	compacta	+
Xanthoria elegans	1	Braya henryae	+
Alectoria ochroleuca	+	Hedysarum mackenzii	+
Buellia alboatra	+	Oxytropis campestris ssp.	
B. papillata	+	jordalii	+
Caloplaca holocarpa	+	Pedicularis kanei. ssp. kanei	+
Candelariella aurella	+	Pinguicula vulgaris ssp.	
Cetraria laevigata	+	vulgaris	+
Cladonia amaurocraea	+	Saxifraga oppositifolia	+
Collema polycarpon	+	Senecio resedifolius	+
Evernia perfragilis	+	Tofieldia coccinea	+
Lecanora epibryon	+	T. pusilla	+
Lecidea assimilata	+		
L. decipiens	+	<u>Shrubs and Trees</u>	
L. pallida	+		
L. rubiformis	+	Dryas integrifolia ssp.	
Ochrolechia frigida	+	integrifolia	20
Physcia caesia	+	Arctostaphylos rubra	+
Physconia muscigena	+	Cassiope tetragona	+
Placynthium nigrum	+	Rhododendron japonicum	+
Protoblastenia rupestris	+	Salix glauca ssp. acutifolia	+
Rhizocarpon chioneum	+		
Rinodina nimbosea var. pruinosa	+		
R. roscida	+		
Thamnolia subuliformis	+		
Tonia caeruleonigricans	+		
T. tristis	+		
Verrucaria virens	+		

Site: 68. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Camsell Range, 10 miles SW of Wrigley. Date: July 12. Elevation: 2700 ft. Aspect: 0-5°. 63° 07'N, 123° 40'W. Habitat: glaciated area; moist well-vegetated depressions between limestone hillocks, Cetraria community. Voucher Numbers: 32036-32088.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	-	<i>Carex scirpoidea</i>	5
Lichens	41	<i>C. membranacea</i>	3
Bryophytes	11	<i>C. petricosa</i>	2
Herbaceous vegetation	14	<i>Eriophorum brachyantherum</i>	1
Woody vegetation	34	<i>Androsace chamaejasme</i> ssp.	
		<i>lehmanniana</i>	+
		<i>Arnica alpina</i> ssp.	
		<i>angustifolia</i>	+
		<i>Carex</i> cf. <i>microchaeta</i>	+
		<i>C. vaginata</i>	+
		<i>Hedysarum alpinum</i> ssp.	
		<i>americanum</i>	+
		<i>Juncus triglumis</i> ssp.	
		<i>albescens</i>	+
		<i>Pedicularis kanei</i> ssp. <i>kanei</i>	+
		<i>Pinguicula vulgaris</i> ssp.	
		<i>vulgaris</i>	+
		<i>Pyrola asarifolia</i> var.	
		<i>purpurea</i>	+
		<i>Saxifraga oppositifolia</i>	+
		<i>Senecio atropurpureus</i> ssp.	
		<i>frigidus</i>	+
		<i>S. lugens</i>	+
		<i>S. resedifolius</i>	+
		<i>Silene acaulis</i> ssp. <i>acaulis</i>	+
		<i>Tofieldia coccinea</i>	+
		<i>T. pusilla</i>	+
		<u>Bryophytes</u>	
<i>Tomenthypnum nitens</i>	4	<i>Arctostaphylos rubra</i>	10
<i>Hylocomium splendens</i>	3	<i>Cassiope tetragona</i>	6
<i>Hypnum bambergeri</i>	2	<i>Dryas integrifolia</i> ssp.	
<i>Rhytidium rugosum</i>	1	<i>integrifolia</i>	6
<i>Abietinella abietina</i>	+	<i>Rhododendron lapponicum</i>	3
<i>Aulacomnium acuminatum</i>	+	<i>Salix reticulata</i> ssp.	
<i>Dicranum elongatum</i>	+	<i>reticulata</i>	2
<i>D. fuscescens</i>	+	<i>Betula glandulosa</i>	1
<i>Distichium capillaceum</i>	+	<i>Picea glauca</i>	1
<i>Ditrichum flexicaule</i>	+	<i>Potentilla fruticosa</i>	1
<i>Meesea uliginosa</i>	+	<i>Salix arbusculoides</i>	1
<i>Tortella tortuosa</i>	+	<i>S. glauca</i> ssp. <i>acutifolia</i>	1
		<i>Vaccinium uliginosum</i> ssp.	
		<i>alpinum</i>	1
		<i>Andromeda polifolia</i>	+
		<u>Shrubs and Trees</u>	

Site: 69. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Camsell Range, 10 miles SW of Wrigley. Date: July 12. Elevation: 2700 ft. Aspect: 0°. 63°07'N, 123°40'W. Habitat: glaciated area; wetland area beside small lake, Eriophorum angustifolium community. Voucher Numbers: 32089-32138.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	-	<i>Eriophorum angustifolium</i> ssp.	
Lichens	4	<i>subarcticum</i>	20
Bryophytes	23	<i>Carex stylosa</i>	7
Herbaceous vegetation	40	<i>C. vaginata</i>	7
Woody vegetation	33	<i>Pedicularis labradorica</i>	1
		<i>Rubus chamaemorus</i>	1
		<i>Amerorchis rotundifolia</i>	+
		<i>Arctagrostis latifolia</i> var.	
		<i>arundinacea</i>	+
<u>Lichens</u>		<i>Equisetum arvense</i>	+
<i>Cetraria cucullata</i>	1	<i>E. scirpoides</i>	+
<i>C. richardsonii</i>	1	<i>Mitella nuda</i>	+
<i>Alectoria ochroleuca</i>	+	<i>Pyrola secunda</i> ssp. <i>secunda</i>	+
<i>Blastenia sinapisperma</i>	+	<i>Tofieldia pusilla</i>	+
<i>Cetraria laevigata</i>	+		
<i>C. nivalis</i>	+	<u>Shrubs and Trees</u>	
<i>Cladina alpestris</i>	+		
<i>C. arbuscula</i> ssp. <i>beringiana</i>	+	<i>Arctostaphylos rubra</i>	10
<i>C. rangiferina</i>	+	<i>Betula glandulosa</i>	5
<i>Cladonia amaurocraea</i>	+	<i>Salix arbusculoides</i>	3
<i>C. cenotea</i>	+	<i>S. niphoclada</i> var. <i>muriei</i>	3
<i>C. coccifera</i>	+	<i>S. reticulata</i> ssp. <i>reticulata</i>	3
<i>C. pocillum</i>	+	<i>Ledum palustre</i> ssp.	
<i>Dactylina arctica</i> PD-	+	<i>groenlandicum</i>	2
<i>Lecanora epibryon</i>	+	<i>Picea glauca</i>	2
<i>Ochrolechia inaequatula</i>	+	<i>Vaccinium vitis-idaea</i> ssp.	
<i>Peltigera aphthosa</i>	+	<i>minus</i>	2
<i>Thamnolia subuliformis</i>	+	<i>Andromeda polifolia</i>	1
		<i>Dryas integrifolia</i> ssp.	
<u>Bryophytes</u>		<i>integrifolia</i>	+
<i>Sphagnum warnstorffii</i>	10	<i>Empetrum nigrum</i> ssp.	
<i>Hylocomium splendens</i>	5	<i>hermaphroditum</i>	+
<i>Tomenthypnum nitens</i>	5	<i>Potentilla fruticosa</i>	+
<i>Aulacomnium acuminatum</i>	2	<i>Rhododendron lapponicum</i>	+
<i>Campylium stellatum</i>	+	<i>Vaccinium uliginosum</i> ssp.	
<i>Cinclidium stygium</i>	+	<i>alpinum</i>	+
<i>Dicranum acutifolium</i>	+		
<i>D. fuscescens</i>	+		
<i>Ditrichum flexicaule</i>	+		
<i>Drepanocladus revolvens</i> var.			
<i>intermedius</i>	+		
<i>Hypnum bambergeri</i>	+		
<i>Meesea uliginosa</i>	+		
<i>Scorpidium turgescens</i>	+		

Site: 70. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Mackenzie Mountains, Camsell Range, 10 miles SW of Wrigley. Date: July 12. Elevation: 2650 ft. Aspect: 10°SE. 63°07'N, 123°40'W. Habitat: glaciated area; Picea glauca krumbholz in small basin. Voucher Numbers: 32139-32206.

	Cover %		Cover %
Bare rock/gravel	2	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	Tomenthypnum nitens	10
Lichens	22	Hylocomium splendens	8
Bryophytes	24	Aulacomnium acuminatum	2
Herbaceous vegetation	14	Hypnum bambergeri	2
Woody vegetation	38	Dicranum fuscescens	1
		Brachythecium turgidum	+
<u>Lichens</u>		Bryum pseudotriquetrum	+
Cetraria cucullata	6	Distichium sp.	+
C. laevigata	4	Ditrichum flexicaule	+
C. nivalis	3	Meesea uliginosa	+
Cladina arbuscula ssp.		Myurella julacea	+
beringiana	3	Rhytidium rugosum	+
Cetraria richardsonii	1	Tortella tortuosa	+
C. tilesii	1		
Alectoria glabra	+	<u>Herbaceous Plants</u>	
A. ochroleuca	+	Carex membranacea	2
Buellia punctata	+	Equisetum scirpoides	2
Cetraria halei	+	Carex vaginata	1
C. pinastri	+	Androsace chamaejasme ssp.	
Cladina alpestris	+	lehmanniana	+
C. rangiferina	+	Anemone parviflora	+
Cladonia amaurocraea	+	Antennaria friesiana ssp.	
C. cenotea	+	compacta	+
C. gonecha	+	Arnica alpina ssp. angustifolia	+
C. gracilis var. dilatata	+	Braya henryae	+
C. pocillum	+	Elymus innovatus	+
C. pyxidata	+	Erigeron hyssopifolius	+
C. uncialis	+	Eriophorum brachyantherum	+
Evernia mesomorpha	+	Hedysarum alpinum ssp.	
Hypogymnia austerodes	+	americanum	+
H. bitteri	+	Oxytropis campestris ssp.	
H. physodes	+	jordalii	+
Lecanora allophana	+	Pedicularis kanei ssp. kanei	+
L. coilocarpa	+	P. labradorica	+
L. varia	+	Platanthera obtusata	+
Parmelia septentrionalis	+	Pyrola asarifolia var. purpurea	+
P. sulcata	+	Rumex arcticus	+
Parmeliopsis ambigua	+	Saxifraga oppositifolia	+
Peltigera aphthosa	+	Senecio atropurpureus ssp.	
Rinodina archaea	+	frigidus	+
Usnea soreidiifera	+	S. lugens	+

Site: 70. Continued.

	Cover %	Cover %
<i>Silene acaulis</i> ssp. <i>acaulis</i>	+	
<i>Stellaria edwardsii</i>	+	
<i>Thalictrum alpinum</i>	+	
<i>Tofieldia pusilla</i>	+	
<i>Zygadenus elegans</i>	+	
<u>Shrubs and Trees</u>		
<i>Arctostaphylos rubra</i>	10	
<i>Picea glauca</i>	8	
<i>Betula nana</i> ssp. <i>exilis</i>	4	
<i>Cassiope tetragona</i>	3	
<i>Salix myrtillofolia</i>	3	
<i>Vaccinium uliginosum</i> ssp. <i>alpinum</i>	3	
<i>Dryas integrifolia</i> ssp. <i>integrifolia</i>	2	
<i>Vaccinium vitis-idaea</i> ssp. <i>minus</i>	2	
<i>Andromeda polifolia</i>	+	
<i>Juniperus communis</i> ssp. <i>nana</i>	+	
<i>Ledum palustre</i> ssp. <i>groenlandicum</i>	+	
<i>Potentilla fruticosa</i>	+	
<i>Rhododendron lapponicum</i>	+	

Site: 71. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 11 miles SE of Wrigley. Date: July 12. Elevation: 3000 ft. Aspect: 5-10°W. 63°10'N, 123°07'W. Habitat: glaciated area; fairly barren ridge with limestone rubble, Dryas community. Voucher Numbers: 32207-32245.

	Cover %		Cover %
Bare rock/gravel	43	<u>Bryophytes</u>	
Soil	1		
Duff/peat	-	Bryum wrightii	+
Lichens	25	Distichium capillaceum	+
Bryophytes	1	Ditrichum flexicaule	+
Herbaceous vegetation	15	Hypnum bambergeri	+
Woody vegetation	15	Rhytidium rugosum	+
		Tortella tortuosa	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
Cetraria cucullata	5	Carex glacialis	4
C. nivalis	5	C. scirpoidea	4
Alectoria ochroleuia	3	Tofieldia coccinea	1
Cetraria laevigata	2	Androsace chamaejasme ssp.	
C. tilesii	1	lehmanniana	+
Evernia perfragilis	1	Antennaria friesiana ssp.	
Lecidea lapicida	1	compacta	+
Protoblastenia rupestris	1	Campanula uniflora	+
Rhizocarpon chioneum	1	Hedysarum mackenzii	+
Thamnolia subuliformis	1	Lesquerella calderi	+
Blastenia sinapisperma	+	Oxytropis campestris ssp.	
Cladina arbuscula ssp.		jordalii	+
beringiana	+	Pedicularis kanei ssp. kanei	+
C. gracilis var. gracilis	+	Pinguicula vulgaris ssp.	
C. pocillum	+	vulgaris	+
Dermatocarpon hepaticum	+	Saxifraga oppositifolia	+
Fulgensia bracteata	+	Senecio resedifolius	+
Lecanora epibryon	+	Silene acaulis ssp. acaulis	+
Lecidea decipiens	+	Thalictrum alpinum	+
Ochrolechia frigida	+		
Physconia muscigena	+	<u>Shrubs and Trees</u>	
Rhizocarpon geographicum	+	Dryas integrifolia ssp.	
Rinodina nimbosa var. nuda	+	integrifolia	10
Solorina bispora	+	Arctostaphylos rubra	3
Toninia caeruleonigricans	+	Betula glandulosa	1
Xanthoria elegans	+	Rhododendron lapponicum	1
		Cassiope tetragona	+
		Picea glauca	+

Site: 73. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Franklin Mountains, McConnell Range, 11 miles SE of Wrigley. Date: July 12. Elevation: 2950 ft. Aspect: 0°. 63°10'N, 123°07'W. Habitat: glaciated area; wetland area, moss community. Voucher Numbers: 32289-32334.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	-	<i>Eriophorum brachyantherum</i>	10
Lichens	1	<i>Carex membranacea</i>	2
Bryophytes	64	<i>C. vaginata</i>	2
Herbaceous vegetation	18	<i>Eriophorum angustifolium</i> ssp.	
Woody vegetation	17	<i>triste</i>	1
		<i>Anemone parviflora</i>	+
<u>Lichens</u>		<i>Castilleja caudata</i>	+
<i>Alectoria ochroleuca</i>	+	<i>Corallorhiza trifida</i>	+
<i>Cetraria cucullata</i>	+	<i>Cyripedium passerinum</i>	+
<i>C. laevigata</i>	+	<i>Equisetum arvense</i>	+
<i>C. nivalis</i>	+	<i>E. scirpoides</i>	+
<i>Cladina mitis</i>	+	<i>Pinguicula vulgaris</i> ssp.	
<i>C. rangiferina</i>	+	<i>vulgaris</i>	+
<i>Cladonia bacillaris</i>	+	<i>Platanthera obtusata</i>	+
<i>C. coccifera</i>	+	<i>Pyrola asarifolia</i> var.	
<i>C. gonecha</i>	+	<i>purpurea</i>	+
<i>C. pocillum</i>	+	<i>Senecio atropurpureus</i> ssp.	
<i>C. pyxidata</i>	+	<i>frigidus</i>	+
<i>Dactylina ramulosa</i> PD+	+	<i>S. lugens</i>	+
<i>Peltigera aphthosa</i>	+	<i>Thalictrum alpinum</i>	+
<i>Rinodina turfacea</i>	+	<i>Tofieldia pusilla</i>	+
		<u>Shrubs and Trees</u>	
<u>Bryophytes</u>		<i>Arctostaphylos rubra</i>	5
<i>Tomenthypnum nitens</i>	20	<i>Salix reticulata</i> ssp.	
<i>Aulacomnium acuminatum</i>	10	<i>reticulata</i>	4
<i>Bryum pseudotriquetrum</i>	10	<i>Betula glandulosa</i>	2
<i>Drepanocladus revolvens</i> var.		<i>Andromeda polifolia</i>	1
<i>intermedius</i>	10	<i>Cassiope tetragona</i>	1
<i>Hylocomium splendens</i>	10	<i>Picea glauca</i>	1
<i>Meesea uliginosa</i>	2	<i>Potentilla fruticosa</i>	1
<i>Cinclidium stygium</i>	1	<i>Rhododendron lapponicum</i>	+
<i>Bryum wrightii</i>	+	<i>Salix alaxensis</i> ssp. <i>alaxensis</i>	+
<i>Clevea hyalina</i>	+	<i>S. myrtillofolia</i>	+
<i>Dicranum elongatum</i>	+	<i>S. niphoclada</i> var. <i>muriei</i>	+
<i>D. fuscescens</i>	+		
<i>Oncophorus wahlenbergii</i>	+		

Site: 74. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, 17 miles NE of Wrigley. Date: July 13. Elevation: 1950 ft. Aspect: 0°. 63°22'N, 123°01'W. Habitat: glaciated area; polygon area; center of polygon dominated by lichens. Voucher Numbers: 32335-32353.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Burned peat tussocks	5	Dicranum elongatum	3
Lichens	50	Polytrichum juniperinum	3
Bryophytes	12	Sphagnum fuscum	3
Herbaceous vegetation	5	Dicranum angustum	2
Woody vegetation	28	Ptilidium ciliare	+
		<u>Herbaceous Plants</u>	
<u>Lichens</u>		Rubus chamaemorus	5
Cetraria cucullata	12		
C. nivalis	12	<u>Shrubs and Trees</u>	
Cladina alpestris	10	Ledum palustre ssp. decumbens	15
C. rangiferina	7	Vaccinium vitis-idaea ssp.	
C. arbuscula ssp. beringiana	5	minus	10
Cladonia coccifera	1	Andromeda polifolia	3
C. gonecha	1	Vaccinium uliginosum ssp.	
Cetraria cf. elenkinii	+	alpinum	1
Cladonia amaurocraea	+		
C. cornuta	+		
C. gracilis var. dilatata	+		

Site: 75. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, 17 miles NE of Wrigley. Date: July 13. Elevation: 1950 ft. Aspect: 0°. 63°22'N, 123°01'W. Habitat: glaciated area; polygon area, moats around polygons. Voucher Numbers: 32354-32363.

	Cover %		Cover %
Bare rock/gravel	-	<u>Herbaceous Plants</u>	
Soil	-		
Duff/peat	25	Rubus chamaemorus	10
Lichens	1	Eriophorum vaginatum ssp.	
Bryophytes	37	vaginatum	2
Herbaceous vegetation	12		
Woody vegetation	25	<u>Shrubs and Trees</u>	
<u>Lichens</u>		Andromeda polifolia	10
		Ledum palustre ssp. decumbens	10
Cladonia subfurcata	1	Vaccinium uliginosum ssp.	
		alpinum	3
<u>Bryophytes</u>		Betula nana ssp. exilis	2
Sphagnum fuscum	15		
S. balticum	8		
Lophozia sp.	7		
Polytrichum juniperinum	4		
Drepanocladus fluitans	2		
Meesea uliginosa	1		

Site: 76. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, 17 miles NE of Wrigley. Date: July 13. Elevation: 1950 ft. Aspect: 0°. 63°22'N, 123°01'W. Habitat: glaciated area; polygon area, center of polygon, Cladina alpestris community. Voucher Numbers: 32364-32370.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	1	Sphagnum fuscum	5
Lichens	74	Dicranum undulatum	2
Bryophytes	8	Polytrichum juniperinum	+
Herbaceous vegetation	5	Sphagnum rubellum	+
Woody vegetation	12		
		<u>Herbaceous Plants</u>	
<u>Lichens</u>		Rubus chamaemorus	5
Cladina alpestris	65		
Alectoria ochroleuca	3	<u>Shrubs and Trees</u>	
Cetraria cucullata	2		
C. nivalis	2	Andromeda polifolia	5
Cladina rangiferina	1	Ledum palustre ssp. decumbens	3
Cetraria laevigata	+	Vaccinium vitis-idaea ssp.	
Cladonia amaurocraea	+	minus	3
C. coccifera	+	Empetrum nigrum ssp.	
		hermaphroditum	1

Site: 77. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, 38 miles SW of Wrigley, 1 mile south of the Root River. Date: July 13. Elevation: 1500 ft. Aspect: 5° S. 62° 52' N, 124° 19' W. Habitat: glaciated area; Ledum palustre ssp. groenlandicum - Picea mariana community. Voucher Numbers: 32371-32415.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	<u>Hylocomium splendens</u>	5
Lichens	16	<u>Aulacomnium acuminatum</u>	1
Bryophytes	10	<u>Dicranum acutifolium</u>	1
Herbaceous vegetation	3	<u>D. fuscescens</u>	1
Woody vegetation	71	<u>Pleurozium schreberi</u>	1
		<u>Ptilidium ciliare</u>	+
<u>Lichens</u>		<u>Herbaceous Plants</u>	
<u>Cladina mitis</u>	10	<u>Geocaulon lividum</u>	1
<u>C. rangiferina</u>	1	<u>Carex scirpoidea</u>	+
<u>Alectoria glabra</u>	+	<u>Equisetum arvense</u>	+
<u>Cetraria halei</u>	+	<u>Pedicularis labradorica</u>	+
<u>C. laevigata</u>	+	<u>Tofieldia pusilla</u>	+
<u>C. pinastri</u>	+		
<u>Cladina alpestris</u>	+	<u>Shrubs and Trees</u>	
<u>Cladonia amaurocraea</u>	+	<u>Ledum palustre</u> ssp.	
<u>C. coccifera</u>	+	<u>groenlandicum</u>	20
<u>C. crispata</u>	+	<u>Picea mariana</u>	17
<u>C. phyllophora</u>	+	<u>Vaccinium uliginosum</u> ssp.	
<u>C. uncialis</u>	+	<u>alpinum</u>	10
<u>Evernia mesomorpha</u>	+	<u>Alnus crispa</u> ssp. <u>crispa</u>	8
<u>Hypogymnia austerodes</u>	+	<u>Betula glandulosa</u>	2
<u>H. physodes</u>	+	<u>Larix laricina</u>	2
<u>Parmelia olivacea</u>	+	<u>Picea glauca</u>	2
<u>P. sulcata</u>	+	<u>Salix glauca</u> ssp. <u>acutifolia</u>	2
<u>Parmeliopsis hyperopta</u>	+	<u>S. myrtilifolia</u>	2
<u>Peltigera aphthosa</u>	+	<u>Vaccinium vitis-idaea</u> ssp.	
<u>P. leucophlebia</u>	+	<u>minus</u>	2
<u>Ramalina</u> sp.	+	<u>Andromeda polifolia</u>	1
<u>Usnea glabrescens</u>	+	<u>Arctostaphylos rubra</u>	1
		<u>Betula papyrifera</u> ssp. <u>humilis</u>	1
		<u>Potentilla fruticosa</u>	+
		<u>Rosa acicularis</u>	+

Site: 78. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, 38 miles SW of Wrigley, 1 mile south of the Root River. Date: July 13. Elevation: 2050 ft. Aspect: 0°. 62°53'N, 124°17'W. Habitat: glaciated area; Hylocomium splendens - Picea mariana community. Voucher Numbers: 32416-32452.

	Cover %		Cover %
Bare rock/gravel	-	<u>Bryophytes</u>	
Soil	-		
Duff/peat	-	<u>Hylocomium splendens</u>	20
Lichens	17	<u>Dicranum undulatum</u>	2
Bryophytes	24	<u>Tomenthypnum nitens</u>	1
Herbaceous vegetation	5	<u>Ptilidium ciliare</u>	+
Woody vegetation	54		
		<u>Herbaceous Plants</u>	
<u>Lichens</u>			
<u>Cladina mitis</u>	8	<u>Carex vaginata</u>	1
<u>C. rangiferina</u>	2	<u>Geocaulon lividum</u>	1
<u>Cladonia uncialis</u>	2	<u>Rubus chamaemorus</u>	1
<u>C. gracilis var. dilatata</u>	1	<u>Equisetum scirpoides</u>	+
<u>Alectoria glabra</u>	+	<u>E. silvaticum</u>	+
<u>Calicium populneum</u>	+	<u>Pedicularis labradorica</u>	+
<u>Cetraria cucullata</u>	+	<u>Petasites palmatus</u>	+
<u>C. halei</u>	+		
<u>C. laevigata</u>	+	<u>Shrubs and Trees</u>	
<u>C. pinastri</u>	+		
<u>Cladonia coccifera</u>	+	<u>Picea mariana</u>	16
<u>C. cornuta</u>	+	<u>Ledum palustre ssp.</u>	
<u>C. crispata</u>	+	<u> groenlandicum</u>	10
<u>C. phyllophora</u>	+	<u>Alnus crispa ssp. crispa</u>	6
<u>Evernia mesomorpha</u>	+	<u>Arctostaphylos rubra</u>	5
<u>Hypogymnia austerodes</u>	+	<u>Vaccinium vitis-idaea ssp. minus</u>	5
<u>H. physodes</u>	+	<u>Salix glauca ssp. acutifolia</u>	2
<u>Lecanora varia</u>	+	<u>Vaccinium uliginosum ssp.</u>	
<u>Parmelia septentrionalis</u>	+	<u> alpinum</u>	2
<u>P. sulcata</u>	+	<u>Betula papyrifera ssp. humilis</u>	1
<u>Peltigera aphthosa</u>	+	<u>Larix laricina</u>	1
<u>Usnea glabrescens</u>	+	<u>Potentilla fruticosa</u>	1
		<u>Rosa acicularis</u>	1

Site: 79*. Location: NORTHWEST TERRITORIES, Mackenzie River Watershed, Wrigley, NE side of townsite. Date: July 13. Elevation: 500 ft. Aspect: 0°. 63°13'N, 123°27'W. Habitat: glaciated area; Pinus divaricata stand. Voucher Numbers: 32453-32464.

	Cover %		Cover %
<u>Lichens</u>		<u>Bryophytes</u>	
Alectoria glabra	+	Ptilidium ciliare	+
Cetraria halei	+		
C. pinastri	+		
Evernia mesomorpha	+		
Hypogymnia physodes	+		
Lecanora allophana	+		
L. varia	+		
Parmelia sulcata	+		
Parmeliopsis aleurites	+		
P. ambigua	+		
Usnea glabrescens	+		

* No cover ratings taken. Only those species found on Pinus divaricata are listed.

APPENDIX II.

LEECHES

At the request of Dr. R.W. Davies of the University of Calgary, an attempt was made, when opportunities arose, to collect leeches. Four specimens were obtained close to Site 1. The collection data is as follows:

YUKON: Chappie Lake, 65°47'N, 134°56'W, elev. 1000 ft., on floating leaves of Nuphar polysepalum. June 30, 1972.

The specimens were given to Dr. Davies who then made the following comments: "Thank you very much indeed for the leeches which as you know constitute the first record from the Yukon. All four specimens belong to a single species - Theromyzon rude (Rathke, 1862). This species has been recorded from British Columbia, Alberta, Saskatchewan, Manitoba and the Northwest Territories; and has been recorded as parasitic on Aythya affinis, Anas acuta, Oxyura jamaicensis rubida, Podiceps auritus, P. grisegena, P. caspicus, Podilymbus podiceps, Anas platyrhynchos, Mareca americana, Fulica americana, Olor buccinator, Anas strepera and Spatula clypeata. This species appears to be distributed along the Rocky Mountain duck fly way."

APPENDIX III.

SPIDERS

As in the studies reported in Bird (1972), a small collection of spiders was made. It was hoped that some interesting biogeographic data would result. All specimens were donated to, and determined by, Dr. Robin E. Leech of Ottawa.

An enumeration of the specimens collected is given below together with and geographic and taxonomic notes made by Leech.

Aranidae

Aculepeira sp. prob. new

YUKON: Knorr Range (Sites 2-11) - 1 female, 1 immature; Wernecke Mountains (Sites 18-27) - 1 immature.

NORTHWEST TERRITORIES: Cap Mountain (Sites 55-61) - 2 females, 1 immature.

GENERAL DISTRIBUTION: The genus is holarctic. One female of possibly the same species was recorded from Mt. Clarke by Bird (1972).

TAXONOMY: "This is a fascinating genus. Each species seems to be restricted to a very small area. There are several in the U.S. Rockies, apparently about 3 in the Canadian, and several in the Palearctic. Again the genus needs revision, and it may be the one I will take up next. However, Herb Levi at MCZ, Harvard U., is presently working on the world Araneidae, and may not like me to 'trend on his territory'. I will ask, as I am interested in the genus. I collected several males and females in the Amethyst Lake area of Jasper N.P. during the summer of 1970. The males from Jasper are distinctly different from those in Banff, but whether or not for species, I do not know. They live above tree-line in talus or scree slope areas, especially where there are large boulders."

Lycosidae

Pardosa sp.

YUKON: Knorr Range (Sites 2-11) - 8 immatures; Wernecke Mountains (Sites 18-27) - 8 immatures; Hungry Creek (Site 36A) - 3 immatures.

Pardosa fuscata (Thorell)

YUKON: Wernecke Mountains (Sites 18-27) - 1 female.

GENERAL DISTRIBUTION: Widespread in the Nearctic. Not reported by Bird (1972).

Pardosa groenlandica (Thorell)

YUKON: Knorr Range (Sites 2-11) - 1 male; Wernecke Mountains (Sites 18-27) - 6 males, 1 female with eggs.

NORTHWEST TERRITORIES: Backbone Ranges (Sites 46-52) - 1 male and 4 immatures; Cap Mountain (Sites 55-61) - 1 male, 1 female with eggs.

GENERAL DISTRIBUTION: Widespread in the Nearctic. This is probably the spider recorded from the Plains of Abraham and Mt. Clarke as P. sp. nr. groenlandica by Bird (1972).

Pardosa sp. nr. varians Gertsch

YUKON: Peel River Lowlands (Site 12) - 1 female.

GENERAL DISTRIBUTION: "Western N.W.T. from the Mackenzie Valley area east to about Coppermine. It is probably a glacial refuge species." Not reported by Bird (1972).

TAXONOMY: "Gertsch described this species and 2 others but his drawings are poor and the group needs work."

Tarentula sp. nr. hirta Kulczynski

NORTHWEST TERRITORIES: Cap Mountain (Sites 55-61) - 1 male.

GENERAL DISTRIBUTION: "There is a small cluster of very similar species, all of which are described from eastern Siberia. I would suspect that they are post-glacial immigrants to northern Canada and Alaska."

TAXONOMY: "The genus needs revision very much."

APPENDIX IV.
AQUATIC BEETLES

At the request of Mr. David Larson, a Ph.D. student of the University of Calgary, an attempt was made, when opportunities arose, to collect water beetles. Thirty-seven specimens were obtained close to Site 1 with the assistance of Dr. Leonard Kalas. The collection data is as follows:

YUKON: Chappie Lake, 65°47'N, 134°56'W, elev. 1000 ft., shallow water near Nuphar polysepalum and Carex spp. June 30, 1972.

Mr. Larson determined the specimens and made the comments which follow.

Dytiscidae

Agabus arcticus Payk.

1 male, 2 females. Distribution - holarctic, transcontinental in North America and extending south to about 52° Lat.

Colymbetes sculptilis complex

2 males. Widespread in North America with many recognizable local forms almost all of which are poorly understood.

Dytiscus parvulus Man. (= alaskanus Balf.)

1 male, 2 females. Distribution - Newfoundland to Alaska and south to northern U.S. Female morph collected at Chappie Lake is only known from localities north of 60° Lat.

Hygrotus unguicularis Cr.

1 male. Distribution - Manitoba to B.C. and south to Colorado; northern limit unknown but sporadic north of the parkland zone.

Ilybius angustior Gyll.

1 male, 5 females. Distribution - holarctic; in North America one of the most common beetles of the boreal region and occurring south to northern U.S.

Ilybius subaeneus Er.

10 males, 3 females. Distribution - holarctic, transcontinental in North America and occurring south to at least northern U.S.

Gyrinidae

Gyrinus wallisi Fall

2 males, 6 females. Distribution - previously recorded from the following areas: Ontario, northern Manitoba, Great Slave Lake.

Chrysomelidae

Galerucella nymphaeae L. ?

1 specimen.

APPENDIX V.
LEPIDOPTERA

A small number of butterflies and moths were collected during breaks in the botanical study program. Though the number obtained was not extensive, they are listed here as they provide some biogeographical data of interest. The collection localities are as follows.

1. YUKON: Chappie Lake, 65°47'N, 134°56'W, elev. 1000 ft. June 30, 1972.
2. YUKON: Knorr Range, 65°26'N, 134°29'W, elev. 4300 ft. July 1, 1972.
3. YUKON: Peel River Lowlands, 66°11'N, 134°17'W, elev. 1300 ft. July 2, 1972.
4. YUKON: Chappie Lake, 65°47'N, 134°56'W, elev. 1000 ft. July 2, 1972.
5. YUKON: Wernecke Mountains, 65°15'N, 135°50'W, elev. 4600 ft. July 3, 1972.
6. YUKON: Chappie Lake, 65°47'N, 134°56'W, elev. 1000 ft. July 2, 1972.
7. NORTHWEST TERRITORIES: McConnell Range, 63°18'N, 123°11'W, elev. 3600 ft. July 8, 1972.
8. NORTHWEST TERRITORIES: Wrigley, 63°13'N, 123°27'W, elev. 500 ft. July 12, 1972.

Papilionidae

Papilio machaon L.

One specimen collected at locality 1. Ehrlich and Ehrlich (1961) state that this species is "widespread in Palaearctic region: Alaska and Yukon southeastward to Alberta, eastward to southern Hudson Bay, James Bay, and parts of southern Manitoba and Ontario."

Pieridae

Colias hecla Lefèvre

One specimen collected at locality 2. Ehrlich and Ehrlich (1961) state that this species is "circumpolar, American Arctic from northern limit of land (Greenland, Ellesmere Island) southward to Labrador, Churchill, Manitoba, and (an isolated colony) Rocky Mountain piedmont west of Red Deer, Alberta (3-4000 feet)."

Pieris occidentalis nelsoni

One specimen collected at locality 5.

Nymphalidae

Boloria eunomia Esper

One specimen collected at locality 1. Ehrlich and Ehrlich (1961) state that this species occurs "chiefly in true sphagnum bogs, Canadian Zone forest, from subarctic Alaska across Canada to Labrador; southward in mountains to Colorado and Maine; Europe and Asia."

Boloria freija Thunberg

Two specimens collected at locality 1, 5 at locality 3, and 2 at locality 4. Ehrlich and Ehrlich (1961) state that this species occurs in "arctic America, from Alaska to Ellesmere Island and Labrador, southward in boggy areas in Canadian Zone forest to Ontario (Geraldton) and Quebec (Laurentides Park); southward in Rocky Mountains at and above timberline to Colorado; northern Europe and Asia; Mt. Daisetsu, Japan."

Oeneis taygete Geyer

Two specimens collected at locality 1, 3 at locality 4, 3 at locality 6, and 1 at locality 7. Ehrlich and Ehrlich (1961) state that this species occurs in "Europe and North America, Labrador to Alaska, southward to the Gaspé and along the Rocky Mountains to Colorado."

Polygonia faunus arcticus Leuss.

One specimen collected at locality 4.

LycaenidaeCelastrina argiolus L.

One specimen collected at locality 3. Ehrlich and Ehrlich (1961) state that this species occurs "throughout the United States and Canada from the subarctic south well into Central America; apparently absent from most of Florida."

SphingidaeHyles gallii (Rottenburg)

Two specimens collected at locality 8. A holarctic species found across the northern part of North America from New York to California and north to Rampart House, Yukon; and Norman Wells, N.W.T.

GeometridaeEulype hastata (L.)

One specimen was collected at locality 8. This species has a Circumpolar, Boreal Montane distribution.

PhalaenidaeDysocnemis sp.

One specimen was collected at locality 8.