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Site 6004 (Boreal Stand 4). 1954-08-15

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Soil pit #1 - Stand #4 - Aug 15/54.
 dug near survey point #29,

Litter - $1\frac{1}{2}$ "
 Ferment - 1"
 Humus - 1"

A₂ - $2\frac{1}{2}$ - 3" - ashy gray

A₃ - $\frac{1}{2}$ " - brownish gray

Soil pit #2 - Aug 15/54
 near survey point #40

Litter - 1"
 Ferment - $\frac{1}{2}$ "
 Humus - 1"

A₁ - $\frac{1}{4}$ "

A₂ - $1\frac{1}{2}$ - 2"

A₃ - $\frac{1}{2}$ "

Soil pit #3 - Aug 15/54
 near survey point #8

Litter $\frac{1}{2}$ "
 Ferment $\frac{1}{4}$ "
 Humus $\frac{1}{2}$ - 1"

A₁ - $\frac{1}{4}$ "

A₂ - $1\frac{1}{2}$ - 3"

A₃ - $\frac{1}{4}$ "

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

285.5

Spruce-fir
Northern Pine-Hardwoods

Station Number: 4 - 1480

N. limit
Index

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	C. I.	
			-80	-320	321											
234.9 Abies bals	13	16				526	97	60.6		32.5	11.8	10.0	4.3	26.1	182.7	208.8
10.2 Acer rubru	3	3				53	5	3.1		7.5	2.8	1.9	0.4	5.1	30.6	25.5
4.0 A. sacchar							1	0.6							1.0	1.0
7.0 A. pensyl aperta															1.0	
Betula lut																
61.0 B. papyrif	3	3				168	1	0.6		7.5	2.8	1.9	1.4	6.1	30.5	54.9
Carpinus c																
Fagus gran																
Ostrya vir																
1063.0 Picea glau	35	62				4376	13	8.1		87.5	31.8	38.7	35.7	106.3	637.8	1063.0
542.0 Picea mar. Pinus Bank	24	30				1672	31	19.4		60.0	21.8	18.8	13.6	54.2	108.4	542.0
60.9 P. resinosa	3	3				489	1	0.6		7.5	2.8	1.9	4.0	8.7	26.1	52.2
631.4 P. Strobus	27	41				4911	5	3.1		67.5	24.5	25.6	40.1	90.2	451.0	541.2
Populus ba																
6.0 P. grandid															1.0	1.0
28.8 P. tremulo	2	2				59	1	0.6		5.0	1.8	1.3	0.5	3.6	7.2	32.4
8.0 Prunus pen							1	0.6							1.0	1.0
Prunus serot. Quercus el							3	1.9								
Q. rubra																
Tilia amer																
Tsuga cana																
Thuja occi																
Ulmus amer																
U. fulva																
9.0 Pyrus amer.							1	0.6							1.0	1.0
3.0 Amelanchier sp															1.0	1.0
16.0 Larix lar.															1.0	1.0
2679 TOTALS		160				12754	160	100.0		275.0	100.0	100.0	100.0	300.0	1480	2526.0

AVE. DIST. BTW'N TREES:

14.95'

AVE B. A.:

76.6 sq'

TREES/ACRE:

195

DOM./ACRE:

14,935

No.	No.	Size Class No. In.		No.	No.	P.F.	P.F.	P.F.	Dom.	P.F.D	Station No.
Pts.	Tr.	12-80	81-320	Dom.	Sap.	Seed	Tr.	Tr.	Trees	Index	
13	16	15✓	1✓	526	97	10	40.0 50	32.5 (11.8)	10.00	4.29	26.09
3	3	3✓		53	5	3	12.0 15	7.5 (2.8)	1.88	0.43	5.11
3	3	2✓	1	168	1	1	4.0 5	7.5 (2.8)	1.88	1.37	6.05
35	62	33 29	29 23	4376	13	3	12.0 15	87.5 (31.8)	38.75	35.71	106.26
24	30	27	23	1672	31	3	12.0 15	60.0 (21.8)	18.75	13.64	54.19
3	3		3✓	489	1			7.5 (2.8)	1.88	3.99	8.67
27	41	69	32	4911	5	2	8.0 10	67.5 (24.5)	25.63	40.08	90.21
2	2	2✓		59	1			5.0 (1.8)	1.26	0.48	3.54
					3	1	4.0 5				
					1						
					1	1	4.0 5				
110	160	84	76	12254	160		100	(100.0)	100.0	100.0	300.0

THE UNIVERSITY OF WISCONSIN

MADISON 6, WISCONSIN, U. S. A.

DEPARTMENT OF BOTANY
BIRGE HALL

Test of Homogeneity - Among *Picea glauca*
40 points yielded - 62
Expected for each 10 pts. - 15

EXPECTED	OBSERVED	DEVIATION	(DEVIATION) ²	$\frac{(DEV.)^2}{EXPECTED}$
15	16	+1	1	0.1
15	17	+2	4	0.2
15	12	-3	9	0.6
15	17	+2	4	0.2
	<u>62</u>	<u>+2</u>		<u>1.1</u>

$$\chi^2 = 1.1 \quad 3^\circ$$

PROBABILITY = 0.80 - 0.70

Test of Homogeneity - Among *Pinus strobus*
40 pts. yielded - 41
Expected for each 10 pts. - 10

EXPECTED	OBSERVED	DEVIATION	(DEVIATION) ²	$\frac{(DEV.)^2}{EXPECTED}$
10	11	+1	1	0.1
10	6	-4	16	1.6
10	12	+2	4	0.4
10	12	+2	4	0.4
	<u>41</u>	<u>+1</u>		<u>2.5</u>

$$\chi^2 = 2.5 \quad 3^\circ$$

PROBABILITY 0.50 - 0.30

Distances for trees - 2392'
Av. distance (160 trees) - 14.95'

Distances for saplings - 2976'
Average distance (160 saplings) - 18.60'

Frequency - Trees.	Freq.	Freq. %.
<i>Picea glauca</i>	62	38.75
<i>Pinus strobus</i>	41	25.62
<i>Picea mariana</i>	30	18.75
<i>Abies balsamea</i>	16	10.00
<i>Acer rubrum</i>	3	1.87
<i>Pinus resinosa</i>	3	1.87
<i>Betula papyrif.</i>	3	1.87
<i>Populus trem.</i>	2	1.25
	160	100.00

Preliminary survey - Stand #4 - Point. New Lake, Aug. 13/54

transect run from east end of point passing due West.

Transect 4 yds wide - 2 yds either side of operator. Taken at 100 yd. intervals - counting W. pine & W. spruce & recording plants

Size approx - 35 acres.

W. pine

W. spruce

///
///

////

9

4

14

15

///

///
/// 1

5

11

///

///

5

5

13

10

///

///

8

5

///

///

8

6

13

18

///

/// // 11

5

12

/// 1

/// //

7

10

/// 11

/// //

7

10

14

20

[illegible]

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Achillea millefolium</i>	✓																						1
<i>Actaea pachypoda</i>																							
<i>Actaea rubra</i>																							
<i>Adiantum pedatum</i>																							
<i>Agastache foeniculum</i>																							
<i>Agrimonia gryposepala</i>																							
<i>Agrostis perennans</i>																							
<i>Allium tricoccum</i>																							
<i>Alnus crispa</i>																							
<i>Alnus rugosa</i>	✓																						1
<i>Amphicarpa bracteata</i>																							
<i>Anaphlis margaritacea</i>	✓																					1	5
<i>Anemone canadensis</i>																							
<i>Anemone cylindrica</i>																							
<i>Anemone quinquefolia</i>																							
<i>Anemone virginiana</i>																							
<i>Antennaria</i> spp.																							
<i>Apocynum androsaemifolium</i>	✓																					3	15
<i>Aquilegia canadensis</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>	✓																					7	35
<i>Aralia racemosa</i>																							
<i>Arctostaphylos uva-ursi</i>																							
<i>Arenaria lateriflora</i>																							
<i>Arisaema atrorubens</i>																							
<i>Asarum canadense</i>																							
<i>Asclepias exaltata</i>																							
<i>Aster acuminatus</i>																							
<i>Aster ciliolatus</i>																							
<i>Aster furcatus</i>																							
<i>Aster lateriflorus</i>																							
<i>Aster macrophyllus</i>	✓																						1
<i>Aster nova-angliae</i>																							
<i>Aster paniculatus</i>																							
<i>Aster puniceus</i>																							
<i>Aster sagittifolius</i>																							
<i>Aster umbellatus</i>																							
<i>Athyrium filix-femina</i>																							
<i>Athyrium thelypteroides</i>																							
<i>Botrychium lanceolatum</i>																							
<i>Botrychium lunaria</i>																							
<i>Botrychium matricariaefolium</i>																							
<i>Botrychium multifidum</i>																							
<i>Botrychium virginianum</i>																							
<i>Brachyelytrum erectum</i>																							
<i>Caltha palustris</i>																							
<i>Calypso bulbosa</i>																							
<i>Campanula rotundifolia</i>																							
<i>Carex arctata</i>																							
<i>Carex aurea</i>																							
<i>Carex brunnescens</i>																							
<i>Carex canescens</i>																							

OMIT
RECORDED
AT LAKE
EDGE

										10										20	
Carex disperma																					
Carex eburnea																					
Carex intumescens																					
Carex leptalea																					
Carex pedunculata																					
Carex pensylvanica																					
Carex projecta																					
Carex woodii																					
Carex spp.	✓																			5	25
Caulophyllum thalictroides																					
Celastrus scandens																					
Chamaedaphne calyculata	✓																				1
Chimaphila umbellata	✓																			1	5
Chrysanthemum leucanthemum	✓																				1
Chrysosplenium americanum																					
Cicuta maculata																					
Cinna latifolia																					
Circaea alpina																					
Cirsium altissimum																					
Cirsium arvense																					
Cirsium vulgare																					
Claytonia caroliniana																					
Claytonia virginica																					
Clematis virginiana																					
Clematis verticillaris																					
Clintonia borealis	✓																				1
Comandra richardsiana																					
Comandra umbellata																					
Comptonia peregrina	✓																				1
Convolvulus spithameus																					
Coptis groenlandicum																					
Corallorhiza maculata																					
Corallorhiza striata																					
Corallorhiza trifida																					
Cornus alternifolia																					
Cornus canadensis	✓																			18	90
Cornus racemosa																					
Cornus rugosa																					
Cornus stolonifera																					
Corydalis sempervirens	✓																				1
Corylus americana																					
Corylus comuta	✓																			4	20
Cryptotaenia canadensis																					
Cynoglossum boreale																					
Cynoglossum officinale																					
Cypripedium acaule																					
Cypripedium arietinum																					
Cypripedium calceolus																					
Cypripedium reginae																					
Cystopteris bulbifera																					
Cystopteris fragilis																					
Dalibarda repens	✓																			1	5

OMIT

										10								20		
Desmodium glutinosum																				
Dicentra canadensis																				
Dicentra cucullaria																				
Diervilla lonicera	✓																		4	20
Dirca palustris																				
Dryopteris boottii																				
Dryopteris cristata																				
Dryopteris disjuncta																				
Dryopteris goldiana																				
Dryopteris marginalis																				
Dryopteris noveboracensis																				
Dryopteris phegopteris																				
Dryopteris spinulosa	✓																			1
Empetrum nigrum																				
Epifagus virginiana																				
Epigaea repens	✓																			1
Epilobium angustifolium	✓																			1
Epilobium glandulosum																				
Epilobium strictum																				
Equisetum arvense																				
Equisetum pratense																				
Equisetum scirpoides																				
Equisetum sylvaticum																				
Erigeron annuus																				
Erigeron philadelphicus																				
Erigeron strigosus	✓																			1
Erythronium albidum																				
Erythronium americanum																				
Eupatorium maculatum																				
Eupatorium perfoliatum																				
Eupatorium purpureum																				
Fagopyrum sagittatum																				
Festuca obtusa																				
Fragaria vesca																				
Fragaria virginiana																				
Galium aparine																				
Galium asprellum																				
Galium boreale																				
Galium concinnum																				
Galium lanceolatum																				
Galium triflorum	✓																			1
Gaultheria hispidula	✓																			1
Gaultheria procumbens	✓																		9	45
Gaylussacia baccata																				
Gentiana andrewsii																				
Gentiana crinata																				
Gentiana linearis																				
Gentiana quinquefolia																				
Geocaulon lividum																				
Geranium bicknelli																				
Geranium maculatum																				
Geranium robertianum																				

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Plant list of species in Stand #4 - New Lake - Aug 13/54
 situated on a peninsula running into New Lake from the
 West and bounded by alder swale & bog - spruce & cham redaphn
 on north & by S. Madawaska R. on S. Chosen because it
 was typically spruce - fir - northern forest - rolling granite
 nodes - Rather swampy tending to more black spruce than
 other stands previously studied. Heavy under cover of
 blueberry & blacker. Less balsam & more spruce regen.
 Size - forest

- Picea glauca*
- Picea mariana*
- Pinus strobus*
- Pinus resinosa*
- Abies balsamea*
- Betula papyrifera*
- Vacc. myrtillifolia*
- Vacc. angust.*
- Saxifraga procumbens*
- Epigaea repens*
- Cornus canadensis*
- Oxentalis borealis*
- Cladonia rangiferina*
- Polytrichum commune*
- Pteridium aquilinum*
- Melampyrum lineare*
- Lycopodium obscurum*
- Asplenium androsaceifolium*
- Lycop. tristachyum*
- Lycop. complanatum*
- Lycop. annotinum*

- Aralia nudicaulis*
- Epilobium angustifolium*
- Grass sp.*
- Caloglyphus schreberi*
- Rubus allaganiensis*
- Prunus serotina* seedling
- Maranthemum canadense*
- Acer rubrum* seedlings
- Pyrola elliptica*
- Rubus idaeus*
- Linnaea borealis*
- Diervilla lonicera*
- Lycop. clavatum*
- Saxifraga hirspidula*
- White Birch* seedlings
- Ledum groenlandicum*
- Polygala pauciflora*
- Chrysanthemum leucanth.*
- Hebeacum amantiacum*
- Hebeacum pratense*

- Logged for pine & spruce.
- Less poplar than before
- typical bog edge.
- Area has been
- budwormed & fresh
- not heavily burned
- Chimaphila umbellata*
- Lycopodium obscurum* - dendroid
- Cladonia gracilis*
- Clintonia borealis*
- Lonicera canadensis*
- Acer rubrum* trees
- Populus trem.*
- Prunus pennsylvanica*
- Saxif. sp.*
- Polygonum cilinode*
- Amelanchier sp.*
- Pop. grand.*
- Acer sacham.*
- Corylus cornuta*
- Hola sp.*

typical *Chamaedaphne* edge
Chamaedaphne
Alnus rugosa
Myrica gale
Spiraea latifolia
Grasses: sedges
Rubus idaeus -
Rubus alligruensis
Lycop ambotinum
Vaccinium
Ribes glandulosum

Acer pensylvanicum -
Spiranthes Romanzoffiana
Anaphalis margaritacea
Achillea millefolium
Comptonia peregrina
Salix laricina
Eriogon strigosus
Salicaria repens
Maxacum officinale
Acer sp. seedling
Rubus pubescens
Salix triflorum
Narella cordifolia
Aster macrophyllus
Monarda uniflora
Streptopus rodus

Rock ridge
Both *Vaccinium*s
Picea glauca
Balsam
Acer rubrum
Corydalis imperialis
Seduthenia pro

Dryopteris spinulosa
Clintonia borealis
Pyrus americana
Viburnum cassinoides

many species of fungi present.

Quadrat #1 - Survey point 1 - Stand 4 - Aug 14/54
 Beginning at E. end - point of peninsula
 Plend aff. Vacc. angust
 Cornus - canad. Vacc. myrtillorde
 Maianthemum

- (a) *Pinus strobus* - $12\frac{1}{2}"$ ¹²³, 12' from point - height - 38' - tree
Picea mariana - $1\frac{1}{4}"$, 34' " " - " 8' - sap.
- (b) *Pinus resinosa* - $13"$ ¹³³, 9' " " - " 46' - tree
Abies bals. - $2"$, 37' " " - " 12' - sap.
- (c) *Picea glauca* - $7\frac{1}{2}"$ ⁴⁴, 25' " " - " 36' - tree
Abies bals. - $2\frac{1}{2}"$, 21' " " - " 25' - sap.
- (d) *Picea mariana* - $5"$ ²⁰, 8' " " - " 28' - tree
Abies bals. - $1\frac{1}{2}"$, 16' " " - " 11' - sap.

At edge of typical spruce bog.

T.D. = 54'

Heavy litter of needles.

Light track, heavy shrub cover of blueberries; no hazel

B. spruce, W. spruce, W. pine, Balsam, R. pine

B + W spruce + balsam regen

Survey point #2 - passing west.

(a) <i>Pinus resinosa</i>	-	13 1/2" ¹⁴³	13'	from point	height ^{tree} 55'
<i>Pinus strobus</i>	-	2 3/4"	31'	"	" 28'-5
(b) <i>Picea glauca</i>	-	7 3/4" ⁴⁸	12'	"	" 45'-+
<i>Picea mariana</i>	-	1 1/4"	31'	"	" 8'-5
(c) <i>Pinus strobus</i>	-	13 1/2" ¹⁴³	11'	"	" 43'-+
<i>Picea mariana</i>	-	1"	39'	"	" 7'-5
(d) <i>Picea glauca</i>	-	10" ⁷⁹	15'	"	" 51'-+
<i>Picea mar.</i>	-	1"	42'	"	" 5'-5

Heavy litter, needles + dead branches.

Mod. heavy bracken, consid. blueberry, no hazel.

B. spruce, W. pine, W. spruce, R. pine, 18 small w. birch, Balsam

B. spruce regem

T.D. = 51'

Squadrat #2 - Survey point #3 Stand 4 Aug 14/54
 Pterid ag. Vacc. myrtilloides

Cornus lan.
 Linnaea borealis
 Maianthemum
 Aralia nudicaulis
 Calcegon schreiberi

(a) Pinus strob.	- 14" ¹⁵⁴	24'	from point	- height - 35' - +
Abies bals.	- 1" -	20'	" "	" 10' - S
(b) Picea mar.	- 9" ⁶⁴	15'	" "	" - 36' - +
Picea mar.	- 1" -	14'	" "	" - 8' - S
(c) Picea mar.	- 9 1/2" ⁷⁰	18'	" "	" - 38' - +
Pinus strob.	2" -	20'	" "	" - 12' - S
(d) Pinus strob.	4" ¹³	7'	" "	" - 26' - +
Abies bals.	2" -	16'	" "	" - 12' - S

Heavy litter needles + dead tracher
 Consid. tracher, + blueberry, no hazel.

T.D. = 64'

W pine, B spruce, W spruce, Balsam.
 B spruce + Balsam regem

Survey point #4

a) *Picea glauc.* $7\frac{1}{2}$ " ⁴⁴ 16' from point, height - 30' - +
Abies bals. $1\frac{1}{4}$ " 8' " " " 8' - S

b) *Pinus strob.* $13\frac{1}{2}$ " ¹⁴³ 30' " " " 34' - +
Pinus strob. 1" 26' " " " 8' - S

c) *Abies bals.* 8" ⁵⁰ 36' " " " 28' - +
Picea mar. 1" 21' " " " 6' - S

d) *Pinus strob.* 9" ⁶⁴ 18' " " " 28' - +
Picea glauc. $2\frac{1}{2}$ " 34' " " " 18' - S

Light litter, dead needles + bracken.

Mod. heavy track, very heavy blueberry

W. pine, B. spruce, W. spruce. Balsam
 B. spruce regen.

T.D. = 100'

Quadrat # 3. Survey points - Stand # 4 Aug 14/54

Pterid. ag. Vacc. myrtill.
Cornus can. Abies bals. - seedling

Saultheria pro.
Polygala paucifolia
maiden hair

(a) Picea glauca -	10", ⁷⁹	10'	from point	height	40'	-t
Picea glauc.	1 1/2",	7'	"	"	9'	-s
(b) Picea glauca	4 1/2", ¹⁶	21'	"	"	25'	-t
Abies bals.	2",	4'	"	"	14'	-s
(c) Picea mar.	9", ⁶⁴	12'	"	"	48'	-t
Abies bals.	1 1/4",	22'	"	"	7'	-s
(d) Picea mar.	14", ¹⁵⁴	6'	"	"	40'	-t
Picea mar.	1 1/4",	27'	"	"	8'	-s

Heavy litter needles.

Some bracken, mod. heavy blueberry

T.D. = 49'

W. spruce, W pine, B spruce, balsam, K. pine
B + W spruce, R pine regen.

Survey point #6.

- (a) *Picea glauca* - 10" ⁷⁹ 16' from point - height - 36' +
Abies bals. - 1" 16' " " - " - 9' - S
- (b) *Picea glauca* - 12 1/2" ¹²³ 15' " " - " - 40' - +
Picea mar. - 1 1/2" 29' " " - " - 10' - S
- (c) *Pinus strob.* - 12" ¹¹³ 40' " " - " - 32' - +
Picea mar. - 1" 29' " " - " - 8' - S
- (d) *Picea glauca* - 11" ⁹⁵ 10' " " - " - 37' - +
Abies bals. - 1" 28' " " - " - 9' - S

Sandy large clearing
 Light litter, grasses, bracken & needles.

Heavy bracken, consid. blueberry

W. spruce, W. pine, R. pine, B. spruce, Balsam, W. birch

B. spruce, W. spruce, W. pine, R. pine regen

T.D. = 81'

Quadrat # 4 - Survey point # 7 - Stand # 4 Aug 14/54

Pterid ag.

Saxifraga pro.

Cornus can.

Melampyrum

Lycop. obscurum.

Holcus sp.

Galium sp.

Rubus allegheniensis

Carex sp.

Vacc. angust.

Vacc. myrt.

W. brack seedling

(a) Picea glauca - 8" ⁵⁰, 31' from point - height - 36' +
Abies bal. - 1 1/2", 23' " " - " - 9' s

(b) Picea mar - 6" ²⁸, 25' " " - " - 25' +
Picea mar - 2 3/4", 25' " " - " - 11' s

(c) Picea glauca - 7 1/2" ⁴⁴, 36' " " - " - 34' +
Picea mar - 1 1/4", 25' " " - " - 9' s

(d) Picea mar - 12" ¹¹³, 27' " " - " - 31' +
Abies bal. - 2 1/2", 30' " " - " - 25' s

Moderate litter, dead bracken + needles - clearing

Fairly heavy bracken - consid blueberry

W.s, W.p, B.s, Balsam, R.p.

B.s + Bals - reger

T.D. = 119'

Survey point #8

- (a) *Pinus strob.* - 13", ¹³³ 18' from point - height - 33' - +
Abies bals. - 2", 27' " " - " - 11' - s
- (b) *Picea glauc.* - 6 1/2", ³³ 8' " " - " - 28' - +
Pinus res. - 2", 28' " " - " - 10' - s
- (c) *Pinus strob.* - 17", ²²⁷ 12' " " - " - 40' - +
Picea mar. - 1", 24' " " - " - 6' - s
- (d) *Picea mar.* - 7 1/2", ⁴⁴ 9' " " - " - 38' - +
Picea mar. - 1", 3' " " - " - 6' - s

Heavy litter tracken + needles.

Modr heavy tracken, consid blueberry

Wp, Ws, Bs, Rp, Bal, White Birch

Black spruce + bals. regn.

T.D. = 47'

Quadrat #5 - Survey point #9 - Stand 4 - Aug 14/54
 Vace august.

Pterid ag.
 Gaultheria pro.
 Tricentals breaks
 Lycop. complanatum
 Apocynum andros.
 Lysichiton sp.
 Cladonia Rang.
 Polytichum prup

- (a) *Picea mariana* - 12" ¹¹³, 28' from point - height 45' - +
Pinus stro. - 1" ¹, 15' " " - " 7' - S
- (b) *Picea glauc.* - 13" ¹³³, 6' " " - " 40' - +
Picea mar. - 2 1/2", 17' " " - " 14' - S
- (c) *Abies bal.* - 3 1/2" ⁹, 15' " " - " 17' - +
Abies bal. - 1 1/2", 26' " " - " 8' - S
- (d) *Picea mar.* - 9" ⁶⁴, 12' " " - " 44' - +
Abies bal. - 2", 28' " " - " 12' - S

T.D. = 61'

Light litter bracken
 Consid bracken, light blueberry.
 Ws, Bs, Wp, Bal.
 Bryum, bryum + W pine regem.

Survey point #10

- (a) *Picea glauc.* - 10" ⁷⁹, 11' from point - height 38' - +
Abies bals. - 1 1/2", 26' " " - " 11' - S
- (b) *Picea glauca* - 8" ⁵⁰, 25' " " - " 30' - +
Picea mar. - 1", 8' " " - " 6' - S
- (c) *Picea glauc* - 9" ⁶⁴, 26' " " - " 32' - +
Picea mar - 1", 17' " " - " 6' - S.
- (d) *Picea mar* 7" ³⁹, 18' " " - " 25' - +
Abies bals. 1", 4' " " - " 6' - S

Light litter dead bracken.

Heavy bracken + blueberry.

T.D. = 80'

Ws, Bs, Wp, Ab.

Bs, Bal. Wp regem

Quadrat #6. - Survey point #11 - Stand 4 - Aug 15/54.

Pterid ag.

Cornus can.

maianthemum.

Cladonia gracilis

Apocynum and.

Cladonia rang.

brassica sp.

Polygala pauc.

Saururus pro.

Polytrichum junif.

Viola sp.

Rubus idaeus

Vacc. angust

Vacc. myrt.

Veering to S.W. to avoid rocky ridge - bare

Pinus canadensis										
(a)	Picea glauca	-	7 1/4"	⁴²	22'	from point	-	height	30'	- +
	Abies bal.	-	1 1/2"		42'	"	"	-	"	11' - S
(b)	Picea glauca	-	7 1/2"	⁴⁴	5'	"	"	-	"	33' - +
	Abies bal.	-	2"		26'	"	"	-	"	12' - S
(c)	Picea glauc.	-	12"	¹¹³	9'	"	"	-	"	34' - +
	Abies bal.	-	1"		17'	"	"	-	"	7' - S
(d)	Pinus strob.	-	15"	¹⁷⁷	22'	"	"	-	"	31' - +
	Abies bal.	-	1"		21'	"	"	-	"	8' - S

Light litter dead bracken.

T.D. = 58'

mod. heavy bracken, consid. blueberries, no hazel

Ws, Wp, Ab, Bs

Balsam, Wp, Ws regn

Survey point #12

- (a) *Picea mar.* - 8" ⁵⁰ - 10' from point, - height 38' - +
Picea mar. - 1" - 8' " " - " 7' - s
- (b) *Pinus strob.* - 9" ⁶⁴ - 8' " " - " 34' - +
Abies bals. - 1 1/4" - 7' " " - " 8' - s
- (c) *Pinus strob.* - 11" ⁹⁵ 11' " " - " 39' - +
Picea glauc. - 2 3/4" - 23' " " - " 13' - s
- (d) *Abies bal.* - 7" ³⁹ 21' " " - " 40' - +
Abies bal. - 2" - 33' " " - " 12' - s

moderate little bracken + needles

Heavy bracken, some blueberry, slight hazel.

Ws, Bs, Wp, Ab, wB, *Salix* sp - sapling

Black spruce + Bal. regen.

T.D. = 60'

quadrat #7, Survey point 13 - Stand 4 Aug 15/54.

Pterid. ag.

Cornus can.

Lycop. annot.

Polygala pauc.

Trentalis br.

Saxifraga rep.

Carex sp.

Juncus sp.

Calcegon

Maianthemum.

Corylus cornuta

Abies bals. - seedling

a) Picea mar. - 8" ⁵⁰ 9' from point, - height. - 45' - T

Pinus strobus - 1 1/2" 8' " " " - 15' - S

b) Picea mar. - 3 1/2" ⁹ 12' " " " - 19' - T

Abies bals. - 1" 34' " " " - 6' - S

c) Picea mar. - 7" ³⁹ 15' " " " - 35' - T.

Picea glau. - 2 1/2" 16' " " " - 14' - S

d) Picea gl. - 11 1/2" ¹⁰⁴ 10' " " " - 39' - T.

Abies bals. - 2" 20' " " " - 15' - S

Light litter tracken + grass + small needles

T.D. = 46'

Heavy tracken, few blueberries, consid hazel.

Ws, Wp, Bs, Ab., WB, rP

WB spruce + bals. regem.

Survey point 14

- (a) *Picea mar* - $8\frac{1}{2}"$ ⁵⁶, 41' from point - height - 30' - t
Picea mar - $1\frac{1}{2}"$, 6' " " - " - 8' - s
- (b) *Pop. trem.* - $7"$ ³⁹, 36' " " - " - 30' - t
Abies bals. - $2"$, 34' " " - " - 9' - s
- (c) *Picea gl.* - $11"$ ⁹⁵, 13' " " - " - 29' - t
Picea gl. - $1\frac{1}{2}"$, 35' " " - " - 8' - s
- (d) *Picea mar* - $10"$ ⁷⁹, 18' " " - " - 29' - t
Picea mar - $1"$, 16' " " - " - 8' - s

Light litter lichens & moss.

Light bracken, consid blueberry, some hazel

Bs, Ws, Wp, Ab, Pt, Acer Sacc.

Ws, Bs, Ab - regen.

T.D. = 108'

Quadrat # 8 - Survey point 15 - Stand # 4 - Aug 15/42

Pterid. ag.

Calcegon

Lycop. annot.

Maianthemum

Cornus can.

Melampyrum lin.

Lycop. clav.

Vacc. myrt.

Abies bals. - seedling

Vacc. angust.

- (a) Picea gl. - 7" ³⁹ - 10' from point - height - 25' - tree
Prunus ser. - 2" - 8' " " " 9' - s.
- (b) Pop. trem. - 5" ²⁰ 14' " " " 36' - +
Pop. trem. - 2" - 18' " " " 15' - s
- (c) Picea gl. - 6" ²⁸ 18' " " " 27' - +
Abies bals. - 1" - 12' " " " 10' - s
- (d) Prunus strob. - 14" ¹⁵⁴ 22' " " " 31' - +
Acer. rubrum - 2 1/2" - 10' " " " 20' - s

Light litter needles, bracken + dead wood.

Heavy bracken, consid blue, consid hazel.

Ws, Wp, Bal, Pop, Acer rubr, nP, Prunus serot

Balsam, Ws, Wp regen

T.D. = 63'

Survey point #16.

- (a) *Picea gl.* - 14" ¹⁵⁴ 17' from point - height - 50' - tree
Abies bals. - 2 1/2" 38' " " - " - 17' - S
- (b) *Pinus strob.* - 9" ⁶⁴ 11' " " - " - 25' - T
Abies bals. - 2 1/2" 20' " " - " - 16' - S
- (c) *Abies bals.* - 6" ²⁸ 13' " " - " - 30' - T
Abies bals. - 1 1/2" 11' " " - " - 10' - S
- (d) *Picea gl.* - 9" ⁶⁴ 24' " " - " - 35' - T
Abies bals. - 2" 7' " " - " - 10' - S

Moderate litter needles + tracken

Light tracken, some blue, consid hazel.

Ws, Wp, Bal, Popt, Acer rubrum, WB, rP.

Balsam + S. regem

T.D. = 65'

Quadrat # 9 - Survey point 17 - Stand # 4 - Aug 15/42

Pterid. ag.
Aralia nud.

Cornus
Maianthemum
Mentalis

Grass sp.

Coral fungi

Corylus com.

Acer sacc. - seedlings

Acer rub. - seedlings

Abies bals. - seedlings

Area badly infested

- (a) Betula pap - 7" ³⁹ 18' from point - height - 38' - T
Abies bals. - 2 1/2" ³⁶ 36' " " " - 14' - S
- (b) Picea gl. - 9" ⁶⁴ 19' " " " - 35' - T
Abies bals. - 2 1/2" ²³ 23' " " " - 18' - S
- (c) Acer rubrum - 4" ¹³ 9' " " " - 21' - T
Abies bals. - 1" ⁴¹ 41' " " " - 6' - S
- (d) Picea gl. - 6" ²⁸ 24' " " " - 28' - T
Abies bals. - 2" ²⁷ 27' " " " - 20' - S

Mod. litter leaves, needles + branches -

Light trachen, little blue, consid hazel.

Ws, Wp, Ab., Acer rub., Bs, Wb, Pop. t., RP,

Balsam + maple regn.

T.D. = 70'

Survey point # 18

- (a) *Picea gl.* - 6" ²⁸ - 9' from point - height - 35' - T.
Abies bals. - 2 1/2" - 18' " " - " 14' - S
- (b) *Pinus strob.* - 8" ⁵⁰ - 7' " " - " 36' - T.
Abies bals. - 2" , 27' " " - " 16' - S
- (c) *Acer rubrum* - 5" ²⁰ 11' " " - " 22' - T.
Abies bals. - 2 1/2" , 15' " " - " 12' - S
- (d) *Abies bals.* - 4" ¹³ 6' " " - " 21' - T.
Betula pop. - 2" , 19' " " - " 19' - S

mod. little bracken, needles, leaves.

light bracken, some blue, fairly heavy hazel

WS, Ab, Am, WB.

Red maple + balsam regen.

T.D. = 33'

Quadrat # 10 - Survey point - 19 - Stand 4 Aug 5/50

Pterid. ag.
 Aralia nud.
 Cornus. can.
 Maianthemum
 Acer rubr. - seedling
 Tormentalis
 Lycop. annot.
 Desmodium illinoense
 Viola sp.
 Streptopus podus.

Picea gl. - seedling
 Vacc. angust.
 Rubus idaeus

- a) Picea glauca - 9" ⁶⁴ 12' from point - height - 35' - t.
 Acer rubrum - 1" 15' " " - " - 10' - s
- b) Acer rubrum - 5" ²⁰ 4' " " - " - 25' - t.
 Acer m. - 1" 10' " " - " - 8' - s
- c) Picea glauca - 10" ⁷⁹ 18' " " - " - 37' - t.
 Prunus pensyl. 1 1/2" 15' " " - " - 9' - s
- d) Picea gl. - 8 1/2" ⁵⁶ 24' " " - " - 38' - t.
 Abies bals. 1 1/2" 13' " " - " - 10' - s

Heavy litter leaves + bracken
 Light bracken; little blue, heavy hazel.
 Ws, Acer m, Wp, Wb. Prunus
 bs, Ws + bals - regen

T.D. = 58'

Survey point # 20

- (a) *Picea gl* - 7" ³⁹ 13' from pt. - height - 30' - +.
Abies bals - 1" 6' " " - " - 7' - S
- (b) *Abies bals* - 8" ⁵⁰ 5' " " - " - 35' - +.
Ulmus rub - 2" 15' " " - " - 20' - S
- (c) *Picea gl* - 6" ²⁸ 13' " " - " - 30' - +
Picea gl - 3" 7' " " - " - 22' - S
- (d) *Abies bals* - 7" ³⁸ 24' " " - " - 35' - +
Abies bals - 2 1/2" 27' " " - " - 19' - S

Light litter leaves + needles.

Little bracken, + blueberry, consid hazel.

Balsam, ws, wp, maple, wb.

Balsam regen

T.D. = 55'

Squadrat # 11 - Survey point # 21 - Stand 4 Aug 15/54.

Pterid ag.
Cornus can.
Mentalis br.
Maianthemum
Sauratheria pro
Pyrus americana

Vacc. myrt.
Vacc. angust
Picea glau. - seedling
Prunus prot - seedling

On the north side of the ridge passing from east due west.

(a) Picea mar. - $8\frac{1}{2}$ "⁵⁶, 8' from point - height - 45' - t.
Abies bals. - $1\frac{1}{2}$ " , 12' " " - " - 13' - s

(b) Prunus strok - $9\frac{1}{2}$ "⁷⁰, 6' " " - " - 38' - t
Abies bals. - 1" , 9' " " - " - 6' - s

(c) Prunus strobus - $9\frac{1}{2}$ "⁷⁰, 7' " " - " - 33' - t
Pyrus amer. - 2" , 6' " " - " - 30' - s

(d) Abies bal. - $10\frac{1}{2}$ "⁸⁶, 10' " " - " - 48' - t.
Abies bal. - 1" , 21' " " - " - 7' - s

Heavy litter needles.

Light bracken, + blue, no hazel.

T.D. = 31'

Typical edge of spruce bog + alder swale.

Black spruce, W_P, Ab., W_S, Pyrus amer, Alnus rugosa.
Poor balsam reger + B spruce.

Survey point #22

- (a) *Picea mar.* - 10" ⁷⁹ - 14' from point. - height - 40' - +
Abies bals. - 2" - 10' " " - " - 16' - s
- (b) *Pinus strobus* - 13" ¹³³ - 14' " " - " - 31' - +
Picea gla. - 2" - 18' " " - " - 9' - s
- (c) *Picea gla* - 12" ¹¹³ - 15' " " - " - 45' - +
Abies bal - 2" - 29' " " - " - 14' - s
- (d) *Picea gla.* - 7" ³⁹ - 10' " " - " - 28' - +
Picea gla - 2 1/2" - 16' " " - " - 16' - s

Moderate litter bracken + needles

Mod. heavy bracken, Some blueberry, Little hazel.

Ws, Bs, Wp, Ab, 1 Wb sapling.

W+B spruce + Bal regen.

T.D. = 53'

Squadrat #12 - Survey point #23 - Stand 4 - Aug 15/54.

Pterid. ag.

Rubus idaeus

Polytrichum junip - thick mat

Acer rubrum - seedling

Lycop. obscurum

Abies bals.

Lycop. clavatum

Picea mar.

Grasses sp.

Lycop. obs. var dendroideum

Saxifraga pro.

Caliergon

Melampyrum

Anaphalis marg.

- (a) Abies bals. - 9", ⁶⁴ 15' from point F - height. 45' - +
 Abies bals. - 1", 7' " " " 6' - S
- (b) Abies bals. - 4", ¹³ 22' " " " 25' - +
 Picea mar. 1 1/2", 28' " " " 8' - S
- (c) Abies bals. - 7", ³⁹ 9' " " " 34' - +
 Abies bals. - 2 1/4", 10' " " " 21' - S
- (d) Picea mar. - 7", ³⁹ 20' " " " 32' - +
 Abies bals. - 2 1/2", 32' " " " 22' - S

Light litter dead bracken. mosses.

T.D. = 66'

Mod. heavy bracken, consid. Blue., little hazel.

Abies bals, Bs, Wp, Ws, Wb

Balsam + bS. regen.

Survey point #24.

- (a) *Picea mar.* - 10" ⁹⁹ - 15' from point. - height - 33' - +
Abies bals. - 1" ¹ - 14' " " - " 6' - S
- (b) *Pinus strobus* - 12" ¹¹³ - 16' " " - " 36' - +,
Abies bal. - 2" ¹ - 18' " " - " 15' - S
- (c) *Picea gl.* - 4" ¹³ - 16' " " - " 25' - +
Abies bals. - 2" ¹ - 21' " " - " 15' - S
- (d) *Pinus strob.* - 11" ⁹⁵ - 23' " " - " 34' - +
Picea gl. - 2" ¹ - 20' " " - " 14' - S

Light litter bracken + needles.

Heavy bracken, heavy blue, moderate hazel.

Wp, Bs, Ws, Bals., Wb

T.D. = 70'

Balsam + W.S. regen.

Much budworm.

Quadrat #13 - Survey point #25 - Stand 4 - Aug. 15/54

Pterid aq.
Cornus pan.
Trentalis br.
Maranthemum.
Polystichum jun.
Laherson
Lycopodium clavatum

Vacc. angust
Vacc. myrtill.
Pinus strobus - seedling
Abies bals.
Pipsirawa? - specimen

- (a) Pinus stro. - 8" ⁵⁰, 17' from point - height. - 33' - T.
Pinus prot - 1", 4' " " - " - 12' - S
- (b) Picea mar - 8" ⁵⁰, 21' " " - " - 40' - T.
Abies bals. - 1 1/4", 9' " " - " - 10' - S
- (c) Pinus stro - 14" ¹⁵⁴, 1' " " - " - 45' - T.
Abies bals. - 1", 6' " " - " - 7' - S
- (d) Pinus strobus - 11" ⁹⁵, 8' " " - " - 36' - T.
Abies bals - 2", 8' " " - " - 11' - S

Heavy litter needles + leaves.

Little bracken, + blue, moderate hazel.

Wp, Bs, Ws, Bals., Wb, Black Cherry

B. spruce + balsam regen.
Consid. budworm

T.D. = 47'

Survey point #26.

- (a) *Picea d.* - 6" ²⁸ 21' from point - height - 31' - t
Picea gl. - 2" 42' " " - " - 15' s
- (b) *Picea mar.* - 9" ⁶⁴ 9' " " - " - 40' - t.
Picea mar. - 1" 8' " " - " - 5' s
- (c) *Betula popy.* - 10" ⁷⁹ 27' " " - " - 36' - t.
Acer rubr. - 2 1/2" 23' " " - " - 19' - s
- (d) *Picea glauca* - 8" ⁵⁰ 4' " " - " - 38' - t.
Abies bals. - 1" 5' " " - " - 5' s

Light litter track + needles.

Light track, heavy blueberry, consid hazel.

Ws, Wp, Bs, Bal, WB, Acer R.

Bs. + Ab. regen.

Much budworm destruction of Balsam

T.D. = 61'

Quadrat # 14 - Survey point # 27 - Stand 4 - Aug 15/54.

Pterid ag.

Cornus can.

Calcegon.

Mass sp.

Aralia nudicaulis

Saururus pro

maianthemum.

Lycop. obscurum

Lycop. clav.

Vacc. angust.

B. spruce seedling

- (a) Picea glau - $4\frac{1}{2}$ " ¹⁶ 6' from point - height - 22' - +
Abies bals - 1" , - 17' " " - " - 6' - S
- (b) Pinus res - $16\frac{1}{2}$ " ²¹³ 10' " " - " - 53' - +
Picea mar. - 1" , 11' " " - " - 7' - S
- (c) Pinus strob. - 12" ¹¹³ 14' " " - " - 32' - +
Picea mar. - 2" , 36' " " - " - 12' - S
- (d) Pinus strob. - $15\frac{1}{2}$ " ¹⁸⁸ 12' " " - " - 38' - +
Picea mar - 1" , 23' " " - " - 7' - S

mod. heavy needle + bracken litter.

mod. bracken, heavy blue, some hazel

T.D. = 42'

Wp, Ws, Bs, Rp, Ab.

Bs & Ab regen.

Survey point #28

- (a) *Picea gl.* - 9" ⁶⁴ - 3' from point - height - 44' - t
Abies bal. - 1" - 4' " " - " - 7' - s
- (b) *Picea gl.* - 11 1/2" ¹⁰⁴ - 6' " " - " - 48' - t
Abies bal. - 2" - 23' " " - " - 15' - s.
- (c) *Abies bal.* - 5" ²⁰ - 7' " " - " - 22' - t.
Abies bal. - 1" - 9' " " - " - 7' - s
- (d) *Pinus stro.* - 14" ¹⁵⁴ - 8' " " - " - 45' - t.
Abies bals. - 2 1/2" - 12' " " - " - 13' - s

Heavy litter of needles + leaves.

Light bracken, + blue. Some hazel. few *Aralia nud.*

Ws, Wp, Ab., Rp.

Balsam. w + b spruce regen.

T.D. = 24'

Quadrat #15 - Survey point #29 - Stand #4 - Aug 15/54

Pterid. ag.

Aralia nudica

Cornus can.

Maianthemum

Saururus pro

Lycop. annot.

Lycop. clavatum

Calamagrostis

Prunella lanceolata

Vacc. angust.

Vacc. myrt.

Abies bals. seedlings

Picea mar. "

Corylus cornuta

- (a) Picea mar. - 10" ⁷⁹ 11' from point - height - 42' - +
Abies bals. - 1" 7' " " - " - 6' - S
- (b) Pinus strob. - 14" ¹⁵⁴ 12' " " - " - 36' - +
Abies bals. - 2" 8' " " - " - 14' - S
- (c) Picea glauca - 12" ¹¹³ 28' " " - " - 43' - +
Abies bals. - 2 1/2" 7' " " - " - 15' - S
- (d) Picea gl. - 7" ³⁹ 11' " " - " - 38' - +
Abies bals. - 1" 12' " " - " - 13' - S.

mod. litter leaves + bracken

Light bracken, heavy blue, little hazel.

Ws, Bals, Bs, Wp, Wb

Bals & B spruce regen.

T.D. = 62'

Survey point # 30.

- (a) *Picea gl.* - 6" ²⁸ 6' from point - height - 31' - +
Abies bal. - 1" 24' " " - " - 13' - s
- (b) *Picea mar.* 10" ⁷⁹ 9' " " - " - 40' - +
Picea mar. 1" 12' " " - " - 6' - s
- (c) *Abies bal.* 5" ²⁰ 13' " " - " - 40' - +.
Abies bal. 2" 9' " " - " - 15' - s
- (d) *Picea gl.* 10" ⁷⁹ 7' " " - " - 38' - +
Abies bal. 1" 19' " " - " - 6' - s

Mod. litter needles.

Little bracken, consid blue, moderate hazel, little malva

Ws, Bs, Wp Ab., Wb.

Balsam sugar - little

T.D. = 35'

Quadrat # 16 - Survey point # 31 - Stand 4 - Aug 15/54

Pterid. ag.

Comus Can.

Calcegon sh.

Oreocolla P.

Melanopyrum

Polytrichum jun.

Masanthemum

Polygala pauc.

Scutellaria pro

grass sp.

Viola sp.

Vacc. angust

Vacc. myrt.

(a) Abies bals. - $4\frac{1}{2}$ "¹⁶ 32' from point - height - 24' - t.

Abies bals. - 2" 24' " " - 15' - S

(b) Picea mar. - 8"⁵⁰ 15' " " - 32' - t

Abies bals. - $2\frac{1}{2}$ " 21' " " - 22' - S

(c) Picea gl. - 8"⁵⁰ 15' " " - 40' - t.

Abies bals. - 1" 25' " " - 12' - S

(d) Picea gl. - 8"⁵⁰ 12' " " - 40' - t.

Picea mar. - 1" 6' " " - 5' - S

Light litter tracken.

Moderate tracken, heavy blueberry, some hazel. T.D. = 74'

WS, Ab, Bs, Wp, Wb. - 1

Bals. 1 W-B sparse regen.

Survey point # 32,

- (a) *Pinus strobus* - 12", ¹¹³ 8' from point - height - 30' - t
Abies bals. - 2", 17' " " - " - 12' - s
- (b) *Picea gl.* - 10", ⁷⁹ 19' " " - " - 38' - t
Abies bals. - 2 1/2", 15' " " - " - 20' - s
- (c) *Pinus strobus* - 10", ⁷⁹ 18' " " - " - 38' - t
Picea gl. - 2 3/4", 14' " " - " - 15' - s
- (d) *Picea gl.* - 10", ⁷⁹ 8' " " - " - 42' - t
Abies bals. - 1", 21' " " - " - 11' - s

Mod. litter needles & bracken,

Consid bracken, little blueberry, little hazel

Ws, Wp, Bal, Bs

Little balsam regen.

T.D. = 53'

Quadrat 17 - Survey point # 33 - Stand 4 - Aug 15/54

Pterid ag.
Cornus can.
Aralia nud.
Dierilla lon.
Maianthemum.
Calcegon 8h.

Vacc. myrt.
Corylus cornuta
Abies bals - seedling

- (a) Abies bals. 4" ¹³ 6' from point - height 25' - T.
Abies bals. 2 1/2" - 13' " " - " 12' - S
- (b) Picea gla. 11" ⁹⁵ 8' " " - " 40' - T.
Abies bals. 1" 6' " " - " 5' - S
- (c) Picea gla. 9" ⁶⁴ 4' " " - " 37' - T.
Abies bals. 2 3/4" 12' " " - " 22' - S
- (d) Pinus stro. 15" ¹⁷⁷ 8' " " - " 40' - T.
Abies bals. 2 1/2" 17' " " - " 16' - S.

Heavy litter needles + bracken

Some bracken, little blueberry, little hazel.

Ws, Wp, Bs, Ab.

Balsam + Bs regen - little

T.D. = 26'

over Scale
>1% little
5% - 20% some
20-60 moderate
60-75 consid.
75-90% heavy
90-100% very heavy

Survey point # 34

- (a) *Picea glauca* - 13" ¹³³ 8' from point - height - 45' - T
Picea gl. - 1" 8' " " - 8' - S
- (b) *Pinus stro.* - 12" ¹¹³ 7' " " - 36' - T
Abies bal. - 2 1/2" 13' " " - 21' - S
- (c) *Picea mar.* - 8" ⁵⁰ 7' " " - 40' - T
Picea mar. - 2" 16' " " - 12' - S
- (d) *Picea mar.* - 9" ⁶⁴ 26' " " - 50' - T
Abies bal. - 2 1/2" 15' " " - 19' - S

mod. litter needles + bracken

mod bracken + blueberry, very little hazel.

Bs, Ws, Ab, Wp.

Balsam + Bs regen

T.D. = 48'

Quadrat #18 - Point 35 - Stand 4 - Aug 15/54

Pterid ag.

Lycop. obscurum

Vacc. myrt.

Vacc. angust

Lycop. complanatum

Cornus can

Melampyrum lin.

Apocynum andros.

Orientalis bor.

Lycop. clavatum

Grass sp.

(a) Picea mariana - 7" ³⁹ 16' from point - height. - 28' - +
Picea mar. - 2" 14' " " - " - 12' - S

(b) Picea gl. - 10 1/2" ⁸⁶ 12' " " - " - 42' - +
Picea gl. - 1" 19' " " - " - 7' - S

(c) Picea gl. - 12" ¹¹³ 20' " " - " - 49' - +
Picea mar. - 2" 10' " " - " - 13' - S.

(d) Picea glau. - 10" ⁷⁹ 17' " " - " - 34' - +
Picea mar. - 2 1/2" 25' " " - " - 12' - S

mod. litter dead tracken

Mod. heavy tracken & blue, little hazel.

Ws, Bs, Wp, Balsam.

Bs, balsam & Ws regen

T.D. = 65'

Survey point # 36.

- (a) *Pinus stro* - 14", ¹⁵⁴ 14' from point - height - 41' +.
Abies bal. - 1", 15' " " - " - 10' - S
- (b) *Picea gl.* - 11", ⁹⁵ 15' " " - " - 40' - +
Abies bal. - 2", 27' " " - " - 16' - S
- (c) *Pinus strobus* - 15", ¹⁷⁷ 12' " " - " - 45' - +
Abies bals. - 2 1/2", 25' " " - " - 16' - S
- (d) *Pinus stro.* - 13", ¹³³ 33' " " - " - 37' - +.
Abies bals. - 1", 9' " " - " - 5' - S

Heavy litter bracken + needles

mod. bracken, consid blueberry, no hazel.

Wp, Ws, Bal. Bs,

Ws + Bs + bal. regen

T.D = 74'

Squadrat # 19 - Survey point # 37 - Stand 4 Aug 15/54

Pterid ag.

Cornus

Taraxacum offic

Grass - sp.

Melampyrum

Mentha

Maianthemum

Polytrichum junip

W. Spruce seedling

W. pine

Balsam

(a) Betula papy - 8" ⁵⁰ 7' from point - height 50' - T.
Abies bals. - 2" 15' " " - " 11' - S

(b) Picea gl. - 13" ¹³³ 34' " " - " 45' - T
Pinus strob - 1" 21' " " - " 7' - S

(c) Picea mar - 6 1/2" ³³ 30' " " - " 33' - T
Abies bals. - 2 1/2" 29' " " - " 25' - S

(d) Picea gl. - 14" ¹⁵⁴ 11' " " - " 55' - T.
Abies bals. - 2 1/2" 24' " " - " 19' - S

Light litter track.

Fairly heavy track, little blue, little hazel.

Ws, Bals, Bs, Wp, Wb.

T.D. = 82'

Survey point # 38

- (a) *Picea glauc.* - 9"⁶⁴, 16' from point - height - 41' - t
Abies bals. - 1 1/2", 28' " " - " - 13' - s
- (b) *Picea mar.* - 6"²⁸, 9' " " - " - 26' - t
Abies bals. - 2", 14' " " - " - 16' - s
- (c) *Picea glauca* - 10"⁷⁹, 7' " " - " - 38' - t.
Acer sacc. - 2 1/2", 16' " " - " - 15' - s
- (d) *Pinus stro.* - 12"¹¹³, 27' " " - " - 35' - t.
Abies bal. - 2", 30' " " - " - 19' - s

Light litter dead branches

Light branches, heavy blueberry; some hazel.

Ws, Bs, Ab, Wp, Wb, K, p. *pinus stro.* *Acer p. t. s.*

Black spruce + balsam regen.

T.D. = 59'

Quadrat # 20 - Survey point # 39 - Stand 4 - Aug 15/54

Pterid. ag.

Arabis nud.

Cornus can.

Lycop. annot.

Maranthemum.

Polygala pauc.

Lycop. clav.

Mentalis

Vacc. angust.

Balsam - seedlings

- (a) *Pinus strobus* - 12", ¹¹³ 10' from point - height - 30' +
Abies bals. - 2", 13' " " - " - 12' - S
- (b) *Picea gl.* - 12", ¹¹³ 9' " " - " - 45' +
Abies bals. - 2", 40' " " - " - 13' - S
- (c) *Pinus strobus* - 13", ¹³³ 8' " " - " - 40' - +
Abies bals. - 1", 12' " " - " - 7' - S
- (d) *Abies bals.* - 6", ²⁸ 32' " " - " - 30' - +
Abies bals. - 1", 29' " " - " - 8' - S

mod. litter needles & leaves.

consid bracken, fairly heavy blueberry, some hazel.

Wp, Ws Balsam, Wb. Rp.

little balsam regen.

T.D = 59'

Survey point # 40

- (a) *Picea mariana* - 8"⁵⁰, 7' from point - height - 38' - t
Picea mar. - 1", 8' " " " - 6' - s
- (b) *Pinus strobus* - 14"¹⁵⁴, 13' " " " - 40' - t
Abies bals. - 1½", 6' " " " - 9' - s
- (c) *Pinus strobus* - 10"⁷⁹, 12' " " " - 35' - t
Abies bals. - 2", 6' " " " - 11' - s
- (d) *Picea glauca* - 11"⁹⁵, 8' " " " - 41' - t
Abies bals. - 1", 7' " " " - 8' - s

Heavy litter needles + leaves.

Light tracken, some blue, some hazel.

Ws, Wp, Bs, Ab, Wb,

little Bs + bal. regen

T.D. = 40'