

UPLAND FIELD VEGETATION

FIELD NO. 123 Plot no.: 1 date: 1 July 1985

LOCATION

Base point landmark: SE corner of stone wall entrance to field

Polar coordinate direction: 348 ° 73 paces

Avg. slope: 11° Slope position: upper slope

Aspect: SE facing

Comments on topography and environment:

Slope nearly uniform throughout the plot
No exposed bedrock

Comments on vegetation structure:

Shrubs rare, herb cover nearly, but not totally complete
Trees and saplings prominent in plot

TRANSECTS

Cover of woody vegetation

spp. code

cover along transect (cm)

Sum
30

JUNVIR

JUVI

35

80

3.83

RHUGLA

Rhus glabra

X

0.0

CORRAC

Cornus rac

X

0.0

ROSMUL

Rosa mult

X

0.0

* mostly *Cladonia evotatella*

FIELD NO. 123

PLOT NO. 1

DATE: 1 July

sum
+ = 0.5
x = 0.0

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock	2									0.25
bare soil	12	8	5	3	4	2				4.75
mosses	+		+							0.13
lichens*	3	7	+	+	+					0.63
SOLISP1.	<i>Solidago</i> sp.1	22	8		2	8	5	3		6.13
RUMEACET	<i>Rumex acetosella</i>	2	15	5	2	10	2	20		7.00
HIERSP.	<i>Hieracium</i> sp.	2	4	+	2	+				1.13
FRAGVIRG	<i>Fragaria virginiana</i>	3	40	8	10	2	2	3		8.5
(ANDRSCOP)	<i>Andropogon scoparius</i>	75	80	60	60	35	80	95	95	72.50
(S. can.)	<i>Solidago</i> sp.2	2	2	+						0.56
LINAUULG	<i>Linaria vulgaris</i>	+	+	2						0.38
SOLISP3.	<i>Solidago</i> sp.3	2								0.25
HYPERPERF	<i>Hypericum perforatum</i>	+								0.06
POA + COMP	<i>Poa compressa</i>	2								0.25
JUNIVIRG	JUVI	40	50							11.25
SILECUCU	<i>Silene cucubalus</i>	X								0.0
ERIGSP.	<i>Erigonum</i> sp.	X								0.0
DIANARME	<i>Dianthus armeria</i>	X								0.0
TRIFAGRA	<i>Trifolium agrarium</i>	X								0.0
CHEPLEUC	<i>Chrysanthemum leucanthemum</i>	X								0.0
Density of woody seedlings	in 4 m ² of quadrats									
JUNVIR	JUVI	2								0.25

x = present, coded as 0.0 density

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10 cm
JUVI	III	III	I		I	14, 19, 11, 11
QUEVE	I					
POTR				I		

use 6 letter codes for these too

JUNVIR
QUEVE
POTR

0.5 seedling per meter square

UPLAND FIELD VEGETATION

FIELD NO.: 123 PLOT NO.: 2 DATE: 3 July

LOCATION

Base point landmark: *Scorner of Stone wall field entrance*

Polar coordinate direction: 294 0 92 paces

Avg. slope: 12° Slope position: upper slope

Aspect: NW facing

Comments on topography and environment:

Hillside near top, levelling out @ upper end of plot

Comments on vegetation structure:

Trees, seedlings in herbaceous vegetation
Shrubs rare

TRANSECTS

Cover of woody vegetation

spp. code

cover, along transect (cm)

[illegible]

FIELD NO. 123 PLOT NO.: 2 DATE: 3 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

bare soil

mosses

lichens

Hieracium sp.

Fragaria virginiana

Trifolium agrarium

Rumex acetosella

Conopogon latifolius

Solidago sp. 1

Solidago sp. 2

Hieracium florentinum

Andropogon scoparius

Linum catharticum

Linaria vulgaris

Poa compressa

Lycopodium obscurum

Solidago sp. 3

Achillea millefolium

Junci

Silene cucubalus

Density of woody seedlings

Junci

TREES

DBH measurement, in cm

spp. code

Junci

0-2

2-4

4-6

6-8

8-10

>10 cm

11.5

11.5, 13, 12, 11.5, 7, 13

PYCNFLEX x *Pycnanthemum flexuosum*

0.0

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UPLAND FIELD VEGETATION

FIELD NO.: 123 PLOT NO.: 3 DATE: 3 July

LOCATION

Base point landmark: SE corner of field

Polar coordinate direction: 278° 52 paces

Avg. slope: 0 Slope position: hilltop

Aspect: none

Comments on topography and environment:

Flat, hilltop

Comments on vegetation structure:

Mostly a shrub thicket < 1m in ht, w/ Juniperus trees
and sedge throughout. Herbaceous cover almost exclusively grasses
and Composites

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA

Rhus gl 10, 43, 60, 70; 50, 17, 57; 123, 25, 55, 90, 38 21.33

CORRAC

Corn ra 43, 120, 225, 50; 80, 25, 10, 15; 24, 80, 45 32.73
45, 75, 35, 105

JUNVIR

Juvi 25; 38; 277 11.33

SALRI

Sali ri 70 2.33

UPLAND FIELD VEGETATION

FIELD NO.: 123 PLOT NO.: 4 DATE: 8 July

LOCATION

Base point landmark:

Corner of field, S corner of stone wall entrance to field

Polar coordinate direction: 341 [°] 173 paces

Avg. slope: N 0 Slope position: hilltop/local depression

Aspect: slightly E facing

Comments on topography and environment:

flat, little or no slope; in lower area between ridges

Comments on vegetation structure:

Shrubs, many < 1m, w/in herb matrix thickets

Large trees to 8m; common and dominant in the plot

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Cornu ra	40, 230, 210, 35, 43, 73, 40, 15, 70, 55, 25	27.87
RHACAT	Rham ca	123, 58, 30	7.03
JUNVIR	JUVI	450, 140, 280, 50, 200, 190	43.67
CORAM	Cornu am	17	0.57

11 @ 6°

12 off 320°

FIELD NO. 123

PLOT NO.: 4

DATE: 8 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present		percentage							
HIERSP.	Hieracium sp.		2						0.06
LACTSP.	Lactuca sp.		5						0.25
Contig.	Contig. + bare soil	10	65	10			75	5	0.63
unk. sp.	unk. sp.	+							19.38
mooses	mooses	+							2.50
DAUCCARO	Daucus carota	0.06							0.75
lichens	lichens			+					
RUBBHIRT	Rudbeckia hirta	+							0.13
SOLIRUGO	Solidago rugosa	20		5	45	5		50	15.63
(Solipl)	Solidago juncea	40		30	5	30	25	25	19.38
HIERFLOR	Hieracium florulentum	2		2				10	2.00
ACHIMILL	Achillea millefolium	+	+	8	2	5	3	5	3.00
TRIFAGRA	Trifolium agrarium	+		5	2			2	1.19
GALIMOLL	Gutierrezia mollis	2	2	5	2	20	2	30	8.25
FRAGVIRG	Fragaria virginiana	8	2	15	15	3	8	100	10.75
ANTHODOR	Anthoxanthum odoratum	30	20	45	65	40	65	20	43.13
RUBVIRG	Rubus virginicus	5		+		2		6	1.69
PRUNVULG	Prunella vulgaris	8	2	+					1.31
OXALSTRI	Oxalis stricta	+		+	+		+	+	0.38
RUMEACET	Rumex acetosella		30				2		0.63
TOXIRADI	Toxicodendron radicans		5	+	0.69	Plantago lanc.	+	0.06	
VEROSPP.	Veronica sp.	+	+			2	2	+	0.69
JUNIVIRG	JUNI		+	0.06					1.00
CHRYLEUC	Chrysanthemum leucanthemum							2	0.44
JUNVIR	JUNI								0.25

TREES

DBH measurement, in cm

spp. code

0-2

2-4

4-6

6-8

8-10

>10 cm

JUNVIR

PRSE

UPLAND FIELD VEGETATION

FIELD NO.: 123 PLOT NO.: 5 DATE: 9 July

LOCATION SE corner of field, on woods road
Base point landmark: SE corner of stone wall field entrance

Polar coordinate direction: 59° 105 paces

Avg. slope: 75° Slope position: upper slope

Aspect: E-facing

Comments on topography and environment:

Near hilltop, north steep hillside
no visible exposed bedrock

Comments on vegetation structure:

Part of the plot is a shrub thicket, the rest w/ shrubs
and trees in herbaceous material. Trees mostly > 2m

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA	Rhus gl	25, 150, 50	7.50
JUN VIR	Juvi	535, 125, 170, 340	39.00
COR RAC	Cora ra	535, 125, 170, 340	39.00
PRUSER	PRSE	530, 40	19.00
LON MOR	Loni mo	60, 190	8.33
RHACAT	Rhan ca	50, 25	2.50
CORFLO	COEL	10 (← trees, but knocked down)	0.33
ELAARG COM	Elaeagnus argentea (= commensis)	X	0.0
FRAAME	FRAN	sodding X	0.0
QUEALB	QUAR	sodding X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUN VIR	11	111	1	11	1	15.5, 12.5, 14, 17.5
QUEVEL		1				
PRUSER		1				
ULAME						13.5
ACERUB		1				

FIELD NO. 123 PLOT NO.: 5 DATE: 9 July

QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present	+	+		+			
rock							
litter & bare soil	5	20	85	20	10	15	19.38
mosses							0.0
lichens				+			0.06
TRIFAGRA							0.94
SOLISPL.				+			16.00
LINAVULG				+			0.13
RUMEACET						10	5.00
VERDOFFI							1.31
FRAGVIRG						20	8.88
PRUNSE							0.06
COMPROSE							0.50
POASPP.						85	22.50
ANDRSCOP							25.00
SATUVULG							2.63
HIERFLOR							0.75
POTESIMP						25	4.00
ACHIMILL							0.19
OXALSTRI							0.25
CHRYLEUC							0.06
SOLISPP.							0.50
SOLIRUGO							2.63
TOXIRADI							4.13
GALIMOL							0.06
							0.25
PARTQUIN							0.63
CONVSP.							1.00
SILECUCU							0.25
RUBIFLAG							0.25
JUNIVIRG							0.25
PRSE							0.50
JUVI							0.25

Density of woody seedlings

PRSE	2						0.50
JUVI	1						0.25

X Rudbeckia hirta
RUDS HIRI 0.0
Plantago lanceolata
PLANLANC 0.0

UPLAND FIELD VEGETATION

FIELD NO.: 177 PLOT NO.: 6 DATE: 2 July

LOCATION

LOCATION
Base point landmark: *Stake marking corner of grid 178*

* Polar coordinate direction: 193 ° ~~123~~ 124 pages

Avg. slope: 0 Slope position: Hilltop

Aspect: _____

Comments on topography and environment:

Flat, hilltop

Comments on vegetation structure:

Herbaceous w/ *Rubus* growing throughout
No trees. } found
No shrubs. }

No trees. 7 2 0

Wo shrubs.

TRANSECTS

Cover of woody vegetation *none present*
 spp. code cover along transect (cm)

spp. code

cover along transect (Cm)

[illegible]

FIELD NO.: 177 PLOT NO.: 7 DATE: 10 July

Base point landmark: Gravel corner 178
Polar coordinate direction: 266° 54 paces
Avr. slope: none Slope position: hilltop
Aspect: none

Flat

Completely herbaceous, ~~the~~
except single v. small shrub

spp. code	cover along transect (cm)
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Руч. ма X 0.0

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
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[illegible]

FIELD NO. 177 PLOT NO.: 7 DATE: 10 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock										0.0
litter & bare soil						20				2.75
mosses										0.0
lichens										0.0
GALLMOLL	<i>Galium mollugo</i>	50	30	15	8	22	30	5	10	21.25
LOTUCORN	<i>Lotus corniculatus</i>	18	25	10	2	22	3	15	12	13.38
PHLEPRAT	<i>Phleum pratense</i>	35	30	70	75	25	12	15	20	35.25
AGROREPE	<i>Agropyron repens</i>	5							+	0.69
DACTGLON	<i>Dactylis glanstrata</i>	35								4.38
TRIFAGRA	<i>Trifolium agrarium</i>	+	2	+	2		2	+	10	12.19
PLANLANC	<i>Plantago lanceolata</i>	2	5			+	+	+	+	1.13
POTERECT	<i>Potentilla recta</i>	2	5	3	5	2	+		2	2.43
HER SPP (FLOR)	<i>Hieracium</i> sp. (flor?)	8	+		7	10	+	60	25	13.88
TARAOFF	<i>Thymus officinalis</i>	+		2						0.31
STELGRAM	<i>Stellaria graminea</i>	+					(?)			0.06 + 8
SILECUCU	<i>Silene (cucubaria)</i>	+		+	+					0.19
DIANARME	<i>Dianthus armeria</i>			+						0.06
VEROOFF	<i>Veronica officinalis</i>				+					0.06
SOLACARO	<i>Solanum carolinense</i>						+			0.06
TRIFREPE	<i>Trifolium repens</i>								+	0.06
HYPERPERF	<i>Hypericum perforatum</i>	X								0.0
ANDRSCOP	<i>Andropogon scoparius</i>	X								0.0

Density of woody seedlings none present

FIELD NO.: 177 PLOT NO.: 8 DATE: 10 July

Base point landmark:

Polar coordinate direction: 330 ° 43 paces

Avg. slope: none Slope position: hilltop

Aspect: Slightly N facing

Comments on topography and environment:

flat

Comments on vegetation structure:

Herbaceous vegetation

Shrubs small, extremely rare

Cover of woody vegetation

spp. code	cover along transect (cm)
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Crane ra	15	0.5
Long no	X	0.0
Prunus serotina	X	0.0

TREES none present

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
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FIELD NO.: 177 PLOT NO.: 9 DATE: 10 July

Base point landmark: grid corner 170
Polar coordinate direction: 225° 10 paces
Avr. slope: none Slope position: hill top
Aspect: slightly E facing

flat

on vegetation structure:
Herbaceous vegetation cover almost complete
Shrubs small, few, and very rare

Cover of woody vegetation
spp. code cover along transect (cm)

CORRAC Cornu ra 35 117

TREES none present

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
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FIELD NO. 177 PLOT NO.: 9 DATE: 10 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

	rock									0.0
	litter & bare soil									0.0
	mosses	+		+						0.125
	lichens									0.0
GALI MOLL	<i>Gallium mollugo</i>	12	15	12	10	12	30	20	40	18.88
LOTU CORN	<i>Lotus corniculatus</i>	15	25	10	12	20	15	8	30	16.88
PHLE PRAT	<i>Phleum pratense</i>	35	30	25	5	60	55	50	35	36.88
DACT GLOM	<i>Dactylis glomerata</i>	3			15					2.25
POA/COMP	<i>Poa compressa</i>	18	+	5		18		20	15	9.56
ROSETTE	<i>Hieracium</i> (ROSE) sp.	45	35	45	15	2	3	30	25	25.00
TRIFAGRA	<i>Trifolium agrarium</i>	18	2	4	22	3	12	18	15	11.75
PLANLANC	<i>Plantago lanceolata</i>	2	+		3					0.69
SILECUCU	<i>Silene cucubalus</i>	2								0.25
DACTYLIS	<i>Dactylis glomerata</i>	3								
RUBUSPP.	<i>Rubus</i> sp. "flav"		5							0.63
RUME ACET	<i>Rumex acetosella</i>		5					20	27	6.50
FRAG VIRG	<i>Fragaria virginiana</i>			5	+			18		2.94
DIAN ARME	<i>Diarrhiza americana</i>			+	2	2				0.56
OXALSTRL	<i>Oxalis stricta</i>			+						0.06
CARESP.	<i>Carex</i> sp.				3			+		0.44
BROMINER	<i>Bromus</i> sp. (inermis # E)				10				5	1.88
POTERECT	<i>Potentilla recta</i>				3	2	10	12	15	5.25
TARAOFFI	<i>Taraxacum officinale</i>				+		+	+	+	0.25
SOLISPL.	<i>Solidago</i> sp. 1					5	2			0.88
SOLACAR	<i>Solanum carolinense</i>					+	+			0.13
ANTHODOB	<i>Anthoxanthum odoratum</i>					2				0.25
LINAVULG	<i>Linaria vulgaris</i>					+				0.06
PARTQUIN	<i>Parthenocissus quinquefolia</i>						+			0.06
ANDRSCOP	<i>Andropogon scoparius</i>							10		1.25
Density of woody seedlings new found										
JUNCTENU	<i>Juncus</i> sp. (tenaxis #)							5		0.63
HYPERPERT	<i>Hypericum perforatum</i> X									0.0
ACHIMILL	<i>Achillea millefol.</i> X									0.0

continued

FIELD NO.: 177 PLOT NO.: 10 DATE: 12 July

Base point landmark: gravel mound
Polar coordinate direction: 286 ° ~~286~~ 60 paces
Avr. slope: none Slope position: hilltop
Aspect: none

Flat, hilltop; rocky ~~sides~~ thin soil

Almost exclusively herbaceous vegetation
only a few small shrub individuals, rare

Cover of woody vegetation
spp. code cover along transect (cm)

CORRAC Corn ra 20 0.67

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
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[illegible]

FIELD NO. 177 PLOT NO.: 10 DATE: 12 July

QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present	percentage								
SOLACARO <i>Solanum carolinense</i>								+	0.06
litter & bare soil				5	15	2			2.75
mosses			2	+	2	+			0.63
SOLIRUGO <i>Solidago rugosa</i>								+	0.06
PHLEPRAT <i>Phlox praterae</i>	20	30	30	15	12	22	25	20	21.75
AGROREPE <i>Agropyron repens</i>	+								0.06
GALIMOLL <i>Galium mollugo</i>	25	12	18	15	22	15	42	10	19.88
LOTUCORN <i>Lotus corniculatus</i>	8	15	12	8	8	6	6		7.88
RUMEACET <i>Rumex acetosella</i>	12	8	10	4			3	3	5.00
POA/SPP. <i>Poa sp.</i>	5	10						+	1.94
OXALSTRI <i>Oxalis stricta</i>	+	4			+				0.63
TRIFAGRA <i>Trifolium repens</i>	+	+	10		8	+			2.44
PLANLANC <i>Plantago lanceolata</i>	2		+						0.31
HIERSP. <i>Hypericum sp.</i>	20	+				8	81	70*	(includes Hier. flor 6.94 below)
UNK/SEC <i>Composite rosette</i>	+	2	+		+	+			0.50
POTESIMP <i>Potentilla simplex</i>	+			+					0.13
LINAVULG <i>Linaria vulgaris</i>		+						+	0.13
ACERSACC <i>ACSA</i>		+							0.06
POTERECT <i>Potentilla recta</i>		+	10	5	12	10	5	+	5.38
DACTGLAM <i>Dactylis glomerata</i>			3	8					1.38
FRAGVIRG <i>Fragaria virginiana</i>			4				14	4	2.75
ANDRSCOP <i>Andropogon scoparius</i>			2						0.25
SILECUCU <i>Silene cucubalus</i>			2						0.25
SOLISPL <i>Solidago sp. 1</i>			+	+	+	2	+		0.50
TARAOFF <i>Taraxacum officinale</i>			+			+			0.13
HIERFLOR <i>Hypericum florentinum</i>				10		4.38	35	*	8.75 (20.4)
TRIFSPP. <i>Trifolium sp.</i>				+					0.06
VEROOFF <i>Veronica officinalis</i>				+	16				2.06
SOLITUNC <i>Solidago pinsea</i>	X								0.00

Density of woody seedlings

ACESAC <i>ACSA</i>	1								0.25
DOACOM <i>Poa compressa</i>					+	2		2	1.13
HAARM <i>Oenothera arvensis</i>						+		+	0.25
HYPPER <i>Hypericum perforatum</i>	X								0.0
ACHMIL <i>Actinella mollis</i>	X								0.0

UPLAND FIELD VEGETATION

FIELD NO.: 937 PLOT NO.: 11 DATE: 11 July

LOCATION

Base point landmark:

Grid corner 922, right by Canoe Hill Rd

Polar coordinate direction: 32 ° 107 paces

Avr. slope: 5° Slope position: lower slope of hillside

Aspect: NW facing

Comments on topography and environment:

Comments on vegetation structure:

Mostly shrub thickets in herb. vegetation
Single tree to 6m present

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC Corn ra 95, 183; 95, 80, 160; 105, 130, 170; 205 40.10
LON MOR Loni mo 90; 3.00
erect Rubis sp. X lupid; 5m or less soft, acuminate → R. allegheniensis(?) 0.0
RUB SPP (ALL) 0.17

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

FRAME FRAM 16

UPLAND FIELD VEGETATION

FIELD NO.: 937 PLOT NO.: 12 DATE: 11 July

LOCATION

Base point landmark:

Polar coordinate direction: 148 77° 74 ~~62~~ ~~40~~ paces

Aur. slope: 8° Slope position: lower slope, hillside

Aspect: W facing

Comments on topography and environment:

Soil is rocky, a litter layer is usually present

Comments on vegetation structure:

Mostly creeping *Rubus* sp. ~~is~~ with herbaceous cover
Few trees and shrubs present

TRANSECTS

Cover of woody vegetation

spp. code cover along transect *latifolia* E

SPI LAT	<i>Rubus</i>	<i>Sp. sp.</i>	110	0.67
BERTHU	<i>Boerhaavia</i>	<i>thunbergii</i>	110	3.67
LON MOR	<i>Lonicera</i>		70	2.33
COR SPP	<i>Cornus</i>	<i>sp.</i>	50	1.67

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
FRAM				1		10.5
ACRU					1	
JUVI						15.0
ACEFI			1	1		

FRAAME

ACERUB

JUNVIR

ACEGI

ACEGRI

✓

% cover of herbaceous and creeping vegetation

species/present

percentage

RUBUSPP.
HYPERPERE

CARESP.

RUMACET

0. 14

rosette
50.1 Paks 500

5011 ROSE SP.
1500000

VERDOFT

PANISPP.

RAILROAD

ANTHODOR

SATUVVLG

5/11/4042G

SOLIGRAM

SOLITJUNG

Erizachon

Смешанном
Состоянии

SALT RUG:

SOLIT RUGI
L. 1829/10/15

LINAVULG

ACERRURE

АЛЕКСАНДР
АЛЕКСАНДР

POTESAMP

APOC AND

ACE RUB

Density of woody seedlings

ACRU					43	2	1	1,75

UPLAND FIELD VEGETATION

FIELD NO.: 937 PLOT NO.: 13 DATE: 15 July

LOCATION

Base point landmark: grid corner 922 by Canoe Hill Rd.

Polar coordinate direction: 26 ~~26~~ ⁰ ~~70~~ ⁷⁰ paces

Avg. slope: 90 Slope position: hillside, lower slope

Aspect: W facing

Comments on topography and environment:

woodchuck holes!

1.5m

Comments on vegetation structure:

Mixed shrub thicket to 1m ht, w/ goldenrods also 1m high
herbaceous cover below canopy moderate, seedlings rare
shallow litter layer usually present 3 large trees present

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA ~~Sl Rhus gl~~ 390; 250; 50; 50, 135 29.17

CORRAC ~~Corn sa~~ 110; 105; 168, 35, 140; 45, 85 22.93

ACESAC ACSA 450; 145 19.83

CRASPP Crataegus sp. X 0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
ACESAC ACSA						11.0, 15.0
JUNVI			1			

ACESAC
JUNVI

FIELD NO.: 937 PLOT NO.: 14 DATE: 15 July

Base point landmark: Grid corner 902 Og. Canoe Hill Rd.

Polar coordinate direction: 94 ° 100 paces

Avg. slope: 11° Slope position: hilltop / crest / upper slope

Aspect: NW facing

Comments on topography and environment:

Comments on topography and environment:
exposed bedrock to SW of plot stake
Plot center at crest of small SW-NE ridge axis

Comments on vegetation structure:

Comments on vegetation structure:
Shrubs primarily *Rubus* sp., creeping in herbaceous cover
Other shrubs very rare, only a single tree present, but others
nearby the plot

Cover of woody vegetation

spp. code 120 Hever along transect (cm)

SPI LAT

Spinal ~~Stem~~ ^{Stem}

X = S. latifolia Fr

0.0

LON MOR

7-10

X

0.0

CORRAC

Corn Ra

X

0.0

DBH measurement, in cm

spp. code

0-2

2-4

4-5

6-8

8-10

 $|>10$

JUNVIR

JUNE

1

FIELD NO. 937 PLOT NO.: 14 DATE: 15 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

3

litter & bare soil

2

mosses

+

+

lichens

5

+

2

Andropogon scop.

65

80

20

20

75

55

70

45

Rubus sp. (flag)

20

15

85

70

18

18

10

30

Solidago rugosa

2

+

7

20

Rumex acetosella

10

6

32

2

15

12

15

15

Hypericum perforatum

4

+

3

Solidago juncea

2

2

5

Potentilla simplex

2

5

Solidago sp. 1

4

Solidago graminifolia X

0.38

0.25

0.13

0.94

54.38

34.50

3.06

13.38

1.19

0.88

0.88

0.50

0.0

Density of woody seedlings

none found

UPLAND FIELD VEGETATION

FIELD NO.: 937 PLOT NO.: 15 DATE: 16 July

LOCATION

Base point landmark: grid corner #922 by Cause Hill Rd

Polar coordinate direction: 22 ° 198 paces

Avg. slope: 7° Slope position: hillside, lower slope

Aspect: NW-facing

Comments on topography and environment:

Comments on vegetation structure:

Shrubs abundant throughout, spaced and not in clumps or thickets. Trees present, most about 4-6 m in ht.
Herbaceous cover throughout plot, less dense beneath trees

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn ra	65, 80, 79, 214, 155, 185	25.93
LONMOR	Loni mo	70	2.33
RHUGLA	Rhus gl	25, 15	1.33
ACERUB	ACRU	570, 310	29.33
PRU VIR	Prun vi	20, 18	1.26
ROS SPP	Rosa sp.	13	0.43

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

JUVI	1			1		
ACRU			1		1	11.3

FIELD NO. 937 PLOT NO.: 15 DATE: 16 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

SOLISPL	Solidago sp. 1	12	7		45	14	10			11.00
SOLIJUN	Solidago juncea	6					2	3	20	3.88
SOLIGRAM	Solidago graminifolia	+	+		2		2	+	+	0.75
RUBUSPP.	Rubus sp. (creeping)	7	15		4	10	20	10	40	13.25
ANDRSCOP	Andropogon scoparius	18	14	12	8	18	12	10	40	16.50
CONVSP.	"Convolvulus" sp.	2		9	10	2	4	8	2	4.63
CARYSP.	Caryophyllidae (unknown)	+								0.06
SOLIRUG	Solidago rugosa		4		5	3	+	14		3.31
ANTHODOR	Anthriscanthus odoratus		+		+	+				0.19
RUMEACET	Rumex acetosella		2	5	2	2		+		1.44
DIALSTRI	Oxalis stricta		+							0.06
PARTQUIN	Parthenocissus quinquefolia			5						0.63
TOXIRADI	Toxicodendron radicans			6	5		6			2.13
PRUNSE	PRSE			2						0.25
GALIMOU	Galium mollugo				+		4		3	0.94
FRAXAMER	FRAM					+				0.06
VEROFFI	Veronica officinalis					+				0.06
JUVIRG	JUVI						+			0.06
HERSP.	Hieracium sp.						2			0.25
HYPERF	Hypericum perforatum						+			0.06
	Solidago nemoralis? [= S. rugosa &]							18		2.25
hard to tell apart! but 1 can't be this narrow										

hard to tell apart! but / can't be US narrow

Density of woody seedlings

PRUSER	PRSE		2						0.50
JUNVIR	JUVI					1			0.25
FRAAME	FRAM					1			0.25

UPLAND FIELD VEGETATION

FIELD NO.: 960 PLOT NO.: 16 DATE: 16 July

LOCATION

Base point landmark: grid corner #960

Polar coordinate direction: ~~45~~ 310 ~~30~~ 81 paces

Avr. slope: 8° Slope position: hill top / upper slope

Aspect: SW-facing

Comments on topography and environment:

Rocky, 6 patches of exposed bedrock, each at least $\frac{1}{2} m^2$ ^{surface} in area

Comments on vegetation structure:

Low shrubs (<1m) in clumps, localized, creeping Rubus forms
herbaceous cover along w/ herb vegetation
Trees sparse ~~and~~

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

COR RAC

Corn sa 422; 300; 31 25.10

HUMLAP

Humil sap 40 1.33

ROSSPP

Rosa sp. X 0.0

TREES

DBH measurement, in cm

spp. code

0-2

same tree

(3-4)

(4-6)

6-8

8-10

>10

PRSE

1

(live)

(dead)

1

PRUSER

FIELD NO. 960 PLOT NO.: 16 DATE: 16 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock	2	1			7	28		
litter & bare soil		15			anthill → 4			
mosses								
lichens	+	+			12	5		
ANDRSCOP <i>Andropogon scoparius</i>	75	5	40	55	10	6	45	45
GALIMOLL <i>Galium mollugo</i>	7	8	5	4				
SOLITJUN <i>Solidago juncea</i>	4		4	+			5	
SOLISPP <i>Solidago sp. 1</i>	5	3	3	2			6	
RUMEACET <i>Rumex acetosella</i>	5			+	12	+	25	5
RUBUSFLAG <i>Rubus sp. (flag)</i>	3	+	+	6			+	40
VIERROSE <i>Hieracium sp. (rosette)</i>	4	+			3	12		6
FRAGVIRG <i>Fragaria virginiana</i>		12		10				
ANTHODOR <i>Anthoxanthus odoratum</i>		5						
SOLIRUGO <i>Solidago rugosa</i>		2						
OXALSTRI <i>Oxalis stricta</i>		+		+				
POTESIMP <i>Potentilla simplex</i>		+						
HYPERPERF <i>Hypericum perforatum</i>			+		+			2
scabrous) SOLISPP <i>Solidago sp. 5 (rosette)</i>				2				
RUBUSP2 <i>Rubus sp. 2</i>					35	20	10	
LINAVULG <i>Linaria vulgaris</i>					+			+
PANISAP <i>Panicum sp.</i>					8	3		
PARTQUIN <i>Parthenocissus quinquefolia</i>					5	5		
PARTSPIC <i>Danthonia spicata</i>					5	4		
ACHIMILL <i>Achillea millefolium</i>	X							

4.63

1.88 to 2.38

0.0

2.19

34.50

3.00

1.69

3.38

~~5.41~~ 6.00

6.31

3.19

2.75

0.63

0.25

0.13

0.06

0.38

0.25

8.13

0.13

1.38

1.25

0.50

0.0

Density of woody seedlings none found

FIELD NO.: 960 PLOT NO.: 17 DATE: 17 July

LOCATION _____
Base point landmark: grid corner #966
Polar coordinate direction: 10 ° 81 _____ paces
Avr. slope: 6° Slope position: Left side, upper slope
Aspect: Sta SW-facing

Comments on vegetation structure:

Comments on vegetation structure:
Small (<1m) shrubs in clumps predominate in herbaceous cover. No trees present, although seedlings are present in the plot

Cover of woody vegetation

spp. code

cover along transect (cm)

LONMOR	loni mo 65; 10	2.50
CORRAC	Corra ra 135; 336; 853; 828	31.73
VITVUL	thunbergii X <i>Vitis vulpina</i> E	0.0
ROS MUL	Rosa (Sp) 100	3.33
	→ <i>multiflora</i> E	

TREES

TREES *none present*
DBH measurement, in cm

spp. code

0-2

2-4

4-6

6-8

8-10

>10

FIELD NO. 960 PLOT NO.: 17 DATE: 17 July



QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, + = >0 but <1 % cover)

species/present	percentage								
rock									0.0
litter & bare soil			6	25		44			3.88
mosses									0.0
lichens									0.0
<i>Solidago juncea</i>	6		44		2	+		+	1.19
<i>Solidago sp.</i> 1	26	30	12		18	25	10	20	17.63
<i>Galium mollugo</i>	8	15	6	2	6	3	5	20	8.13
<i>Andropogon scoparius</i>	5	3				2	6	15	3.88
<i>Anthoxanthum odoratum</i>	2	+	5	3	2	5		3	2.56
<i>Oxalis stricta</i>	+					+			2.06 0.13
<i>Rubus sp.</i> (creeping)	6	4		4	+	+		+	1.94
<i>Rumex acetosella</i>	10		+	+		2	25		4.75
<i>Potentilla canadensis</i>	2	5							0.88
<i>Hypericum perforatum</i>	+							+	0.06
<i>Trifolium agrarium</i>		2	4			2		+	1.06
<i>Hieracium sp.</i>		+	6		18		6	10	5.06
<i>Solidago rugosa</i>		2	3	8	4	2		3	2.75
<i>Solidago graminifolia</i>			3		+				0.44
<i>Centauria maculosa</i>			2					+	0.31
<i>Plantago lanceolata</i>			3						0.38
<i>Potentilla simplex</i>			2	3	2	2			1.13
<i>Solidago sp.</i> rosette			2					2	0.50
<i>Carex sp.</i>			+		+			13	1.75
<i>Poa compressa</i>			+						0.06
<i>Aster sp.</i>				+				+	0.13
<i>Convolvulus sp.</i>				3					0.38
<i>Arrhenatherum elatius</i>				5					0.63
<i>Satureja vulgaris</i> X									0.0
<i>Achillea millefolium</i> 96017A ← juncea (F)						44			
Density of woody seedlings none found								+	0.06
<i>Potentilla recta</i>								2	0.25
<i>Daucus carota</i> X									0.0

CONTINUED

UPLAND FIELD VEGETATION

FIELD NO.: 960 PLOT NO.: 18 DATE: 17 July

LOCATION

Base point landmark: grid corner #960

Polar coordinate direction: 75 ° 84 paces

Avg. slope: 25 Slope position: hill top

Aspect: S facing

Comments on topography and environment:

Comments on vegetation structure:

Shrubs solitary and ^{mostly} in clumps and thickets, not > 1m high
in surrounding herbaceous vegetation
trees to 6m present in low abundance

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA	Rhus gl	353; 283 130; 20; 96	19.97
CORRAC	Corn. Ha	193; 130 295; 174; 260; 109	34.37
JUNVIR	JUVI	100; 200	10.00
FRAAME	FRAM	120	4.00

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

PRUSER	PRSE	11				
JUNVIR	JUVI				1	18.0
FRAAME	FRAM			1		

[illegible]

UPLAND FIELD VEGETATION

FIELD NO.: 960 PLOT NO.: 19 DATE: 18 July

LOCATION

Base point landmark: grid corner #960

Polar coordinate direction: 49 ° 100 paces

Avg. slope: <5° Slope position: hilltop

Aspect: slightly E-facing

Comments on topography and environment:

Flat

Comments on vegetation structure:

Trees w/ shrub thicket undercanopy surrounded by herb. material
shrubs ~1m high, some smaller

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn ra	43; 203; 152; 354; 25	25.90	501
PRUSER	PRSE	80; 250; 152 510; 160	33.33	295
LONMOR	Lon5 mo	129	4.30	354
ACERUB	ACRU	80	2.67	
BERTHU	Berk thurb	X	0.0	

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
ACRU						12.5
PRSE						13.5

ACRU

PRSE

FIELD NO. 960 PLOT NO.: 19 DATE: 18 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

ANDRSCOP

ANTHODOR

GALIMOL

SOLIRUGO

SOLIRUGO

RUBUSPP.

FRAGVIRG

POTE SIMP

ACERRUBR

OXALSTRE

RUME ACET

FRAXAMER

CARECOMP

SOLIGRAM

POA/SPP.

ACHIMILL

HIERSP.

HYPETERF

TRIF AGRA

SOLIJUNK

PANISPP.

SOLISP7.

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

TOXIRADI

Density of woody seedlings

ACRU

FRAM

FRAM

FRAM

FRAM

FRAM

1		1					1	
		3	2			1		

species
0.0 estimate

10.88

5.88

0.0

43.19

0.50

4.44

12.88

0.94

5.38

0.38

1.06

2.38

0.13

2.19

0.88

0.38

0.44

0.06

0.13

1.00

0.13

0.06

0.50

0.06

0.25

2.50

UPLAND FIELD VEGETATION

FIELD NO.: 960 PLOT NO.: 20 DATE: 18 July

LOCATION

Base point landmark: quad corner 760

Polar coordinate direction: 351 ° 20 pages

Avg. slope: 5° Slope position: left side, upper slope

Aspect: W and SW facing

Comments on topography and environment:

flat, sloping topography

Comments on vegetation structure:

Mostly herbaceous w/ solitary and clumps of shrubs $< 1\text{m}$ high.
Trees absent, seedlings rare

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

CORRA	CORRA	108; 154; 108; 142	17.07
PRUSER	RAGE	adl 33	1.10
LONMOR	Loni mor	X	0.0
FRAAME	FRAM	adl X	0.0

TREES *none present*

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
-----------	-----	-----	-----	-----	------	-----

X

```
(x=present in the plot but not the quadrats, += >0 but <1 %
cover)
```

percentage

[illegible]

Density of woody seedlings

[illegible]

UPLAND FIELD VEGETATION

FIELD NO.: 710 PLOT NO.: 21 DATE: 19 July

LOCATION

Base point landmark:

corner of stone walls at SE corner of field in woods

Polar coordinate direction: 328 ° 196 paces

Avr. slope: <5° Slope position: Local depression

Aspect: none

Comments on topography and environment:

*Flat plain at bottom of hill
one (10') contour above stream creek*

Comments on vegetation structure:

Trees dominant, ~~most shrubs~~ in a dense array, shrubs sparse and small, most ~ 1/2 m high. Herbaceous cover predominately grasses, some ~~low~~ creeping Rubus

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn rac 207; 25; 143	12.50
ELACOM	Elac com 180;	6.00
JUNVIR	JUVI 40; 310; 70; 250	23.33
LONMOR	Lon mor 3	0.10
ROSSPP	Rosa sp X	0.0
ACERUB	ACRU hdl X	0.0
JUNCOM	Juni com var depr. X	0.0
CORAM	Corn an X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUNVIR					1	11.0
(cont'd)						
PRUSE	1	1				
ACSA	1	11				
JUVI (still cont'd)						
JUVI (total)	20	33	18	3	1	1

JUNVIR

PRUSER
ACESAC

FIELD NO. 710 PLOT NO.: 21 DATE: 19 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock									0.0
litter & bare soil	18	55	3	50			150 25		15.13 or 16.38
mosses	4		5		65	40	+	10	15.56
lichens		+							0.06
ANDRSCOP <i>Andropogon scoparius</i>	45	28	50	60	20	18	70 65	155 50	42.00
RUMEACET <i>Rumex acetosella</i>	7		15			2	8		4.00
RUBUSPP. <i>Rubus</i> sp. (creeping)	18	7	12	2	8	18	8	3	9.50
OXALSTR <i>Oxalis stricta</i>	+	+		+	+				0.25
SOLIR <i>Solidago</i> sp. (pinkish)	2						+		0.31
ACHIMILL <i>Achillea millefolium</i>		+				2			0.31
VEROFFI <i>Veronica officinalis</i>		7							0.88
SOLIR <i>Solidago</i> sp. 1 (rosette)		18	2		10	2			4.00
PANISPP. <i>Panicum</i> sp.		+							0.06
LINAVULG <i>Linaria vulgaris</i>				+					0.06
POTESIMP <i>Potentilla simplex</i>				3		+			0.44
SOLIJUNC <i>Solidago juncea</i>					4				0.50
CIRSARVE <i>Cirsium arvense</i>					6				0.75
HIERSPP. <i>Hieracium</i> sp.						2			0.25
HYPERPERF <i>Hypericum perforatum</i>						2			0.25
ANTHODOR <i>Anthoxanthum odoratum</i>	X								0.0
RUDBHIRT <i>Rudbeckia hirta</i>	X								0.0

Density of woody seedlings

none present in quadrats

UPLAND FIELD VEGETATION

FIELD NO.: 710 PLOT NO.: 22 DATE: 19 July

LOCATION

Base point landmark: corner of stone walls at SE corner of field

Polar coordinate direction: 306 ° 121 paces

Avr. slope: 25' Slope position: mid slope

Aspect: NW facing

Comments on topography and environment:

Soil thin in areas, exposed bedrock present in plot

Comments on vegetation structure:

Trees and seedlings dominant and relatively dense
herb layer dominated by grasses and moss.
some shrubs, although sparser, are present, <1m high

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

JUN.VIR	Juvi	340; 410; 130; 640	50.67
ACERUB	ACRU	70; 240	10.33
PRUSER	PRSE	120	4.00
ROSSPP	Rosa sp.	35; 27	2.08
RHUGLA	Rhus gl.	22; 30; 30	2.73
CORRAC	Cornus	110; 30	4.67
JUNCOM (var. dep.)	Juniperus commun var. dep.	295;	9.83
JUNCOM (same)	Juniperus commun	40	1.33
VIBDEN	Viburnum dent	X	0.0
SPI LAT	Spiraea latifolia	X = S. latifolia	0.0
VITVUL?	Vitis vulpina	? X	0.0
VACVAC	Vacc vac	X	0.0
TOX RAD	Toxicodendron radicans		0.0

TREES totals 48 32 3 3 3 1

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUNVIR						13.0
(cont'd)						
(cont'd)						
PRUSER						
ACRUB	1	3 X				26.0
JUVI (cont)						

X

22

Plot No.: 21

DATE: 19 July

percentage

0.0

35	15	60	2	40	25	45	30	6
----	---------------	----	---	----	---------------	----	----	---

7	12	15	90		2	35	75
---	----	----	----	--	---	----	----

+		
---	--	--

24.63

0.813

4,00

0.19
1.25

1.29

0.06
0.94

0.17
294

0.38

0.63

0.13

3.25

3.38

0.06

~~100~~ 100

0.0	
0.0	

ACESAC

11

10.25

UPLAND FIELD VEGETATION

FIELD NO.: 710 PLOT NO.: 23 DATE: 22 July

LOCATION

Base point landmark: corner of stone walls at SE corner of field (in woods)

Polar coordinate direction: 294 ° 79 ~~173~~ 173 paces

Avr. slope: >5° Slope position: hillside, lower slope

Aspect: W-facing

Comments on topography and environment:

Within 30m of field edge, gently sloping

Soil very thin, 45cm deep on the average

Comments on vegetation structure:

Seedlings and large trees are dominant, shrubs are not common, usually solitary and ~~up to 1.5m~~ up to 1.5m. Herbaceous material mostly grass, moss, with conspicuous poison ivy

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA	Rhus gl.	116; 100; 232; 35	16.10
ACERUB	ACRU	40	1.33
JUNVIR	JUVI	500; 230; 133; ~300	~38.77
JUNCOM	Juni com. var. sp.	410	13.67
VACCOR	Vaccinium sp.	150 corymbosum	5.00
LONMOR	Loni mo	45	1.50
SPI LAT	Spiraea latifolia X = S. latifolia	5	0.0
VIRIDENT	V. dent	X	0.0
VITSPP	Vitis sp.		0.0

QUEBOS QUBO

BELE BELE

ULMAM TREES ULAM

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

JUNVIR JUVI ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ 25.0

QUEVEL QUEVE ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~

CARGLA CAGL ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~

ACESAC ACSA ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~

ACERUB ACRU ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~

QUEPR QUPR ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~ ~~|||||~~

FIELD NO. 710 PLOT NO.: 23 DATE: 22 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock									0.0
litter & bare soil	85	85		10*	15	70	10		34.63
mosses		+	2*		10	15	10	70	13.44
lichens			10*	6*					2.00
ANDRSCOP <i>Andropogon scoparius</i>	8	10 7			60	12	70	10	20.88
CONUSPP. <i>Convolvulus</i> sp.	4	2			+				0.81
ACHIMULT <i>Achillea millefolium</i>	+				+	+	+		0.25
RUBUSPP. <i>Rubus</i> sp. (creeping)	2	+		4		+		3	1.25
RUMEXACET <i>Rumex acetosella</i>		2			7				1.13
SOLIBICO <i>Solidago bicolor</i> / <i>hispida</i>	4				10			3	2.13
SOLISPL. <i>Solidago</i> sp.	2 2					4	3		1.13
SOLIRUGO <i>Solidago rugosa</i>				2			2	2	0.75
POTESIMP <i>Potentilla simplex</i>					2	+			0.31
CIRSARVE <i>Cirsium arvense</i>					+				0.06
OXALSTRI <i>Oxalis stricta</i>					+	+	+		0.19
ANTHODOR <i>Anthoxanthum odoratum</i>					+			+	0.13
TOXIRADI <i>Toxicodendron radicans</i>						2		14	2.00
CRATSP. <i>Crat</i> sp.							4		0.50
QUERVEL <i>Quercus</i>								2	0.25
SOLIJUNC <i>Solidago juncea</i>	X								0.0
HYPERPERF <i>Hypericum perforatum</i>	X								0.0

Density of woody seedlings ~~these~~ 2 plots located in a huge *Juniperus communis* comm

CRASPP
QUEVEL

Crataegus sp.
Quercus

2

0.50
2.00

veg depri
chump w/
lichens on
its bark

UPLAND FIELD VEGETATION

FIELD NO.: 710 PLOT NO.: 24 DATE: 22 July

LOCATION

Base point landmark:

Polar coordinate direction: ~~70~~° 59 ~~E~~ paces

Avg. slope: 12° Slope position: hillside ~~lower~~ ~~lower~~

Aspect: N and NW-facing upper slope ~~not to lower slope~~

Comments on topography and environment:

Soil thin in places, small area of exposed rock present in plot

Comments on vegetation structure: (25%)

Comments on vegetation structure: Tree seedlings and saplings predominate with some trees. Shrubs rare, up to 2m. Herbaceous vegetation mostly mosses and grasses, other herbs rare.

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

Vac Vac
JUN VIR
Vac cor
VIB DEN
JUN COM
ROSS AP

Vacc vac 255	8.50
JUVI 370	12.33
Vacc corymb X	0.0
Vib dent X	0.0
Tamias communis var depr. X	0.0
Rosa sp.	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUVF 11 11	11 11	11 11	11		1	11.5, 13.0

JUNVIR

PRUSER
ACESAC
ACERUB

DBH measurement, in cm		0-2	2-4	4-6	6-8	8-10	>10
spp. code							
JUVI	11 12	11 12	11 12	11		1	11.5, 13.0
	11 12	11 12	11 12				
	11 12	11 12	11 12				
	11	11 12	1				
PRSE		1					
ACSA		1					
ACBU		1					

DATE: 22 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

whole ~~plot~~ beneath *Vaccinium vacillans* bush

[illegible]

Density of woody seedlings

[illegible]

UPLAND FIELD VEGETATION

FIELD NO.: 710 PLOT NO.: 25 DATE: 23 July

LOCATION

Base point landmark: corner of stone walls at SE corner of field

Polar coordinate direction: 330 ° 261 paces in woods

Avr. slope: <5° Slope position: hillside - lower slope

Aspect: NNE facing

Comments on topography and environment:

Mostly flat

Comments on vegetation structure:

Some trees up to 6m, most
Shrubs and saplings predominate
Grasses + sedges dominate herb layer

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

ELACOM	<u>Elac com 12; 43</u>	<u>1.83</u>
JUNVIR	<u>Juvi 51; 213; 13; 155</u>	<u>14.40</u>
VIBDEN	<u>Vib dent 6;</u>	<u>0.20</u>
CORRAC	<u>Cora ra 41; 40</u>	<u>2.70</u>
ALNRUG	<u>Aln ru 260</u>	<u>8.67</u>
SPILAT	<u>Spir lat 6 = S. latifolia 5</u>	<u>0.20</u>
RHACAT	<u>Rham ca X</u>	<u>0.0</u>
LONMOR	<u>Loni mo X</u>	<u>0.0</u>
ROSSPP	<u>Rosa sp X</u>	<u>0.0</u>
JUNCOM	<u>Juni com var depr 208; 112</u>	<u>19.67</u>
VIBRUS	<u>Viburnum lat ruf X</u>	<u>0.0</u>

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUNVIR	<u> </u>	<u> </u>	<u> </u>	<u>1</u>		<u>17.0, 12.0</u>
	<u> </u>	<u> </u>				
	<u> </u>	<u> </u>				
	<u> </u>	<u> </u>				
ACESAC	<u>1</u>					
PINSTR	<u>1</u>					

FIELD NO. 710 PLOT NO.: 25 DATE: 23 July

QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present	percentage								
rock				2	+				0.31
litter & bare soil	3	15	4	12	4		18	20	9.50
mosses									0.0
lichens				+					0.06
ANDRSCOP <i>Andropogon scoparius</i>	40	60	60	45	65		65	35	46.25
ANTHODOR <i>Anthoxanthum odoratum</i>	5	+	2			4	+	5	1.63
CIRSARVE <i>Cirsium arvense</i>	7								0.88
ACHIMILL <i>Achillea millefolium</i>	+			+		+		+	0.25
SOLISPI. <i>Solidago sp. 1</i>	10	15	15	18	16	7	5	12	12.25
HYPERPER <i>Hypericum perforatum</i>	+								0.06
POTESIMP <i>Potentilla simplex</i>	3	+	15	3	+		2		3.00
FRAGVIRG <i>Fragaria virginiana</i>	2		3	2	2	6	2		2.13
VERDOFFI <i>Veronica officinalis</i>	2		2		4	3	2		1.63
undergrowth	+							7	0.94
OXALSTRI <i>Oxalis stricta</i>	+								0.06
JUNIVIRG <i>Juni</i>	25		+				+		3.25
SOLJUNC <i>Solidago juncea</i>		5	3	13					2.63
HIERSP. <i>Hieracium sp.</i>			+		+	+	+		0.25
CARECOMP <i>Carex sp. 2</i> [<i>C. complanata</i> s.l.]			+	+	+	+	+		0.25
UNKROSE <i>Unknown rosette 2</i>			5	4		2	3		1.75
SOLIGRAM <i>Solidago graminifolia</i>			+						0.06
CHRYLEUC <i>Barbarea-type</i> <i>Chrysanthemum leucanthemum</i> (see Tax. notes)									0.06
TRIFAGRA <i>Trifolium agrarium</i>				+					0.06
rosette narrow 1025-A <i>Unknown sp.</i> UNK.SPP.				+					0.06
1025-A <i>Solidago sp. 2</i> SOLISPI. 2					2	5			0.88
Poa comp. grass sp. POACOMP					4			+	0.56
Poa comp.									
EQUIARVE <i>Rudbeckia hirta</i> RUBHIRT								7	0.0
PRUNVULG <i>Prunella vulgaris</i> X									0.0
Density of woody seedlings									0.0
JUNVIR <i>JUNI</i>	1		1				1		0.75

* originally in the middle of a clump of Juni cover near edge, no herb material located using random #'s, but can be excluded

UPLAND FIELD VEGETATION

FIELD NO.: 460 PLOT NO.: 26 DATE: 24 July

LOCATION *SW corner of gap in stone wall*
Base point landmark: *in forest at SE corner of the field, in grid #464*
Polar coordinate direction: *353* ° *110* _____ paces
Avr. slope: *25°* Slope position: *hilltop, microdepression*
Aspect: *N-facing*

Comments on topography and environment:

Flat, slightly sloping to N

Comments on vegetation structure:

Comments on vegetation structure:
Cover is almost exclusively little bluestem and Rubus, some mosses, with
gray birch in one corner of the plot
Seedlings present but not common, Cornus racemosa thicket at the edge of
the plot

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

CORRAC	Corn ra 54;	1.80
BETPOF	BEPO 390;	13.00
QUEILT	QUIL sellings X	0.0
VACVAC	Vacc vac	0.0

TREES

DBH measurement, in cm

[illegible]

FIELD NO. 460 PLOT NO.: 26 DATE: 24 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

ANDRSCOP

RUBUSPP

JUNIVIRG

RUMEACET

TOXIRADI

APOCANDR

Andropogon scoparius

Rubus sp. (creeping)

JUVI

Rumex acetosella

Toxicodendron radicans

Apocynum androsaemifol. X

0.0

24.88

13.19

0.19

42.50

25.25

0.06

1.63

0.06

0.0

Density of woody seedlings

JUVI

0.25

UPLAND FIELD VEGETATION

FIELD NO.: 460 PLOT NO.: 27 DATE: 24 July

LOCATION *SW corner of gap in stone wall*
Base point landmark: *in forest @ SE corner of field (grid #454)*
Polar coordinate direction: *330* ° *262* *174* paces
Avr. slope: *7°* Slope position: *Local depression*
Aspect: *E to NE-facing*

Comments on topography and environment:

Comments on topography and environment:
(~~Both~~ Blusten) Grass dominates herbaceous vegetation, shrubs, seedlings, and trees rare in this plot

Comments on vegetation structure:

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

CORRAC	Corn ra	37j	1.23
LONMOR	Loni mo	181j	6.03
VACANG	Vacc ang ang	X	0.0
GAYBAC	Gay bac	X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
-----------	-----	-----	-----	-----	------	-----

[illegible]

XV

FIELD NO. 460 PLOT NO.: 27 DATE: 24 July

QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

ANDRSCOP	Andropogon scoparius	85	40	85	65 55	85	88	85	85	76.00
RUMEACET	Rumex acetosella	10	22	12	5	12	20	7	3	11.38
HIERSPP HIERSPP	Hieracium sp. Hieracium sp.	1		3	16					2.50
RUBUSPP	Rubus sp. (creeping)		10						6	2.00
TOXIRADI	Toxicodendron radicans		10							1.25
VERBOFFI	Veronica officinalis			2						0.25
POTESIMP	Potentilla simplex							2	11	1.63
LINAVULG	Linaria vulgaris	X								0.0
LYSIQUAD	Lysimachia quadrifolia	X								0.0

Density of woody seedlings none present

UPLAND FIELD VEGETATION

FIELD NO.: 460 PLOT NO.: 28 DATE: 24 July

LOCATION

Base point landmark: SW corner of gap in stone wall in forest

Polar coordinate direction: 300° of 79 paces

Avg. slope: <5° Slope position: slight local depression

Aspect: none

Comments on topography and environment:

Close to field edge, just plot center just > 15m from large stand of *Populus grandidentata*. Flat topography in small local depr.

Comments on vegetation structure:

Mixed shrub thicket (*Cornus*) and *Populus* s.d. and s.d. association. Herb. layer primarily grass and some *Rubus*, ~~trees not~~ large (>4m ht.) trees not present in the plot

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn ra	98; 170; 348; 279	28.83
POP GRA	POGR	275; 430; 160	28.83
RHUGLA	Rhus gl	X	0.0

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

POP GRA	POGR						
JUVIR	JUVI						
(~3m tall)	QUIL (tree habit)						
QUEIL							

FIELD NO. 460 PLOT NO.: 28 DATE: 24 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

(* animal burrow in quadrat)

species/present

percentage

↓

rock

litter & bare soil

mosses

lichens

Andropogon scoparius

Rubus sp. (creeping)

Solidago rugosa

Rumex acetosella

Solidago graminifolia

75

30

X

40

RUBUSPP.

X

60

16

28

20

10

12

70

20

2

88

16

2

68

21

2

70

28

12

0.0

20.75

0.06

0.0

61.38

17.63

5.00

2.25

0.0

Density of woody seedlings

none found

UPLAND FIELD VEGETATION

FIELD NO.: 460 PLOT NO.: 29 DATE: 25 July

LOCATION SW corner of gap in stone wall in forest
 Base point landmark: near SE corner of field located in grid #464
 Polar coordinate direction: 323 ~~81~~ 81 paces
 Avr. slope: 8° Slope position: hillside, upper slope
 Aspect: NNW-facing
 Comments on topography and environment:

Comments on vegetation structure:

Small dense copse of Betula in plot, seedlings present but rare in the plot, cover mostly herbaceous, predominately grasses matrix with patches of Rubus. Some shrubs present, with a Cornus thicket just outside the plot

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

seedlings {	QUEVE 20	QUEVEL	0.67
{don't count}	PRSE 52	PRUSER	1.73
VACANG	Vacc stam 47		1.57
CORRAC	Corn ca X		0.0
CRASP	Crat sp X		0.0
VACSTA	Vacc. Stam X		0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
BEPO	1					15.0
PRSE	1					

BEIPO
PRUSER

FIELD NO. 460 PLOT NO.: 29 DATE: 25 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

Andropogon scoparius

Danthionid spicata

Rubus sp. creeping

Potentilla simplex

Rumex acetosella

Hieracium sp.

Carex sp.

65

50

50

15

18

20

18

35

+

+

+

2

+

+

28

45

40

90

85

80

35

50

6

2

5

10

+

30

14

2

1

+

+

+

+

+

4

4

4

3

+

+

+

4

4

4

3

+

+

+

+

+

+

+

+

+

+

0.0

27.25

6.63

0.56

57.88

1.63

7.06

0.19

1.13

0.88

0.06

Density of woody seedlings

none present in quadrats

BEPO

X

PRSE

X

QUVE

X

QUAZ

X

0.0

0.0

0.0

0.0

UPLAND FIELD VEGETATION

FIELD NO.: 460 PLOT NO.: 30 DATE: 25 July

LOCATION SW corner of gap in stone wall in forest
 Base point landmark: near SE corner of field located in grid #464
 Polar coordinate direction: 324 179 paces
 Avr. slope: 5° Slope position: hillside - upper slope/hilltop
 Aspect: East SE-facing
 Comments on topography and environment:

Comments on vegetation structure:

Dense, but small copse of trees in plot; some saplings & seedlings found in plot along with shrubs, but not common. Majority of plot cover is herbaceous vegetation. (slight)

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

BETPO P	BEPO 141; 118	8.63
QUEILZ	QUIL 64;	2.13
CORRAC	Corn ra 20;	0.67
VACVAC	Vacc vac X	0.0
LONMOR	Lonicera morrowii X	0.0

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

BETPO P	BEPO	11					11.0
QUEVEL	QUEVE		1				
JUNVIR	JUVI	1	1				
PRUSER	PRSE	1					

FIELD NO. 460 PLOT NO.: 30 DATE: 25 July

QUADRATS

% cover of herbaceous and creeping vegetation

```
(x=present in the plot but not the quadrats, += >0 but <1 %  
cover)
```

species/present

percentage

rock

litter & bare soil 50

mo s s e s

lichens

ADDRESS

PURPOSE

(fr. 12)

1 YSI QVAD

(quadrato)

RUMACE

RETURN?

Series 02

NAVYLG

$$0.5 < 0.5455$$

9 (E) 3400

HIER 5PP.

$$x_1 = 0$$

DANT ST 10

PDTFSIM

Density of woody seedlings

BEPO

AESA

BET POP

ACESAC

UPLAND FIELD VEGETATION

FIELD NO.: 720 PLOT NO.: 31 DATE: 29 July

LOCATION

Base point landmark:

Polar coordinate direction: 174°, 89 paces

Avr. slope: 7° Slope position: hillsides: upper slope

Aspect: Sto SW-facing

Comments on topography and environment:

Exposed bedrock in N side of plot

Comments on vegetation structure:

herb. layer predominately grasses + Rubus; shrubs rare but present, $< 1\text{m}$ ht;
Trees common, up to 6m ht., some seedlings also present

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
10	100

JUNVIR	Juvl	240j80	10.67
CORRAC	Corn ra	13j	0.43
JUNCOM	Juni com	X (var depp.)	0.0
LONMOR	Loni mor	X	0.0
CRASPP	Crat sp.	X	0.0
VIBDEN	Vib dent	X	0.0
ROSSPP	Rosa sp.	X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUVI		1	1	1		11.5, 14.5

JUNVIR
QUEVEL

Potentilla?

FIELD NO. 720 PLOT NO.: 31 DATE: 29 July

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present	percentage								
rock				+					0.06
litter & bare soil				7	4	10	16 2		3.63
mosses	18	8	26		5	12	3	18	11.25
lichens				2	+	+	+		0.44
ANDRSCOP <i>Andropogon scoparius</i>	40 60	60	60	60	65	75	85	70	64.38
SOLISPL. <i>Solidago sp. 1</i>	10	6							2.00
SOLIRUGO <i>Solidago rugosa</i>	4								0.50
PRUNERO <i>PRSE</i>	3								0.38
RUBHSPR. <i>Rubus sp. (creeping)</i>	17	32	20	30	35	1		2	17.13
RUMEACET <i>Rumex acetosella</i>	4		19	6	11	5	6		6.38
DANTSPIC <i>Oenothera spicata</i>	+	+				+		10	1.44
HYPERPER <i>Hypericum perforatum</i>	+								0.06
SOLITUNK <i>Solidago juncea</i>	+								0.06
JUNIVIRG <i>JUVI</i>		+							0.06
dandelion <i>Lactuca sp.</i>				2	LACTSPR.				0.25
POACOMP <i>Poa compressa</i>	X								0.0
CARESPR. <i>Carex sp.</i>	X								0.0
DENNPUNC <i>Polypodiaceae</i>	X								0.0
SOLIGRAM <i>Solidago graminifolia</i>	X								0.0

Density of woody seedlings

PRUSER <i>PRSE</i>	1								0.25
JUNVIR <i>JUVI</i>		1							0.25

UPLAND FIELD VEGETATION

FIELD NO.: 720 PLOT NO.: 33 DATE: 3 Aug

LOCATION

Base point landmark:

Polar coordinate direction: 108° 55 paces

Avr. slope: 2° Slope position: hill top / hillside upper slope

Aspect: both SW and NW-facing

Comments on topography and ^{small} environment:

Plot located on top of a ^{small} NE-SW ridge w/ bedrock outcrops nearby
The soil is very thin in this plot

Comments on vegetation structure:

Vegetation cover is mostly little bluestem underlain by moss or exposed moss. Creeping *Rubus* is common, shrubs ~~not present~~ extremely rare, *Sedum* present but rare in the plot, small trees present but not common

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

LONMAR *Lonicera* X 0.0
RHUGLA *Rhus glabra* X 0.0

TREES

DBH measurement, in cm

spp. code 0-2 2-4 4-6 6-8 8-10 >10

JUNVIR

Juniper

11

111

DATE: 3 Aug

species/present

percentage

litter & bare soil

mosse

lichens

RUBUS sp.

RUMACEAE

DANTSPIG

DANISH

Density of woody seedlings

not found in quadrats

FIELD NO.: 720 PLOT NO.: 35 DATE: 3 Aug

Flat Terrain

Comments on vegetation structure:
Herbaceous vegetation dominant in most of the plot, but shrub clumps are common in the W half. Trees present, upto 4m in ht., but seedlings absent or not observable

CORRAC	Corn rac 147	4.90
LONMOR	Loni mor X	0.0
RHUGLA	Rhus gl. X	0.0
SPI LAT	Spiraea lat X	0.0

JUNVIR

[illegible]

FIELD NO. 720 PLOT NO.: 35 DATE: 2 Aug

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

species/present

percentage

rock

litter & bare soil

mosses

lichens

RUBUSPP.

RUMEACET

ANDRSCOP

DANTSPIE

SOLISPL.

POTECANA

PANISPP.

JUNCEFFU

SOLIGRAM

SOLIJUNC

SOLIRUGO

SOLIBICO

AGROSOP.

CARESOP.

LINAVULG

ACHIMILL

Rubus sp. (creeping)

Rumex acetosella

Andropogon scoparius

Danthonia spicata

Solidago sp. 1

Potentilla canadensis

Panicum sp.

Juncus sp. ~~tenax~~ *officinalis*

Solidago graminifolia

Solidago juncea

Solidago rugosa

Solidago bicolor (resp. 3)

Agrostis sp.

Carex sp.

Linaria vulgaris

Achillea millefolium

Basidiomycetes
mushroom →

(see Tax notes)

Density of woody seedlings *none found present.*

UPLAND FIELD VEGETATION

FIELD NO.: 715 PLOT NO.: 32 ~~257~~ DATE: 29 July

LOCATION

Base point landmark:

corner of stone walls at NE corner of field

Polar coordinate direction: 257 ° 55 paces

Avr. slope: 7° Slope position: hillside: lower slope

Aspect: Exposing

Comments on topography and environment:

Comments on vegetation structure:

large

*Plot vegetation is dominated by trees, but not very common;
Shrubs rare; herbaceous layer predominately grasses and Rubus;
also with large conspicuous goldenrod clonal populations in the plot*

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn sa	205; 340	18.17
JUNVIR	JUVY	190; 150	8.00
QUEPR	QUPR	200; 290; 300; 440	41.00
ROSSPP	Rosa sp. X		0.0
BERTHU	PRSE Barb H X		0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
QUEPR						21.0
JUNVIR	1		1		1	15.0, 12.0, 19.5
PRSE						

✓

```
(x=present in the plot but not the quadrats, += >0 but <1 %  
cover)
```

percentage

0.0

10.0

10.0

6.00142196.67

36.5

26.

0.380.25Q130.96

0.50

7,00

Σ. 06

0.90.00.0

1

1

1

1

4

1

111

—

1

4

QUSP

0.2

QUESAD

UPLAND FIELD VEGETATION

FIELD NO.: 715 PLOT NO.: 34 DATE: 3 Aug

LOCATION

Base point landmark: 267

Polar coordinate direction: 265 ⁰ 46 ³² paces

Avr. slope: <5° Slope position: hillsides lower slope

Aspect: none discernible

Comments on topography and environment:

Flat terrain. the center of this plot is 10m from a stone wall separating it from another field -- therefore this plot may not fit the criterion to be used in ordination.

Comments on vegetation structure:

Trees common, forming a canopy, though. Shrubs rare but present, usually 20.5m high. Herbaceous vegetation mostly mixed ~~for~~ association of grasses.

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

RHUGLA	Rhus gl	78;	2.60
JUGNIG	JUNI	140;	4.67
JUNVIR	JUNI	200; 180;	12.67
ROSSPP	Rosa sp.	15;	0.50
CORRAC	Corn coc	X	0.0
LONMOR	Loni mor	X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUNVIR	III	III	II	II	I	18.5, 10.5
JUGNIG	I	I	II			

FIELD NO. 715 PLOT NO.: 34 DATE: 3 Aug

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

* difficult to distinguish vegetatively to estimate cover because they grow in mosaics

cover: 100% grasses

species/present

percentage

rock + 0.06

litter & bare soil 8 10 7 12 4.63

mosses 0.0

lichens + 4 2 0.38

JUGLNI6R JUNI 3 5 1.00

AGROREPE + 0.06

AGROALBA *Agrostis alba* 40* 30* 50 50* 21.25

ANTHODOR *Anthoxanthum odoratum* 60* 40* 80 50* 15 10 31.88

SOLISPI. *Solidago* sp. 1 17 10 4 32 13 9.63

PANISAP. *Panicum* sp. 5 + 0.69

LACTCANA *Lactuca canadensis* 3 0.38

OXALSTRE *Oxalis stricta* 1 0.13

POA/COMP *Poa compressa* + 10 18 + 3.63

VEROOFFI *Veronica officinalis* 1 0.13

ANDRSCOP *Andropogon scoparius* 18 25 35 60 18.50

HIERAPP. *Hieracium* sp. 22 8 + 3.81

RUMEACET *Rumex acetosella* 5 + 0.69

SOLIJUNK *Solidago juncea* 2 2 4 1.00

JUNIVIRG *Juncus* 1 0.06 or 0.00

RUBUS *Rubus* sp. (erect) 10 1.25

DACTGLOM *Dactylis glomerata* 10 1.25

DANTSPIC *Danthonia spicata* 50 6.25

RUBUSAPP. *Rubus* sp. (creeping) + 0.06

POTESIMP *Potentilla simplex* + 0.06

APOCANDR *Apocynum androsaemifolium* X 0.0

CENTMAKU *Centauria musculosa* X 0.0

SOLIRUGO *Solidago rugosa* X 0.0

Density of woody seedlings

JUGNIG JUNI 1 1 0.50

JUNVIR JUNI 1 0.25

UPLAND FIELD VEGETATION

FIELD NO.: 904 PLOT NO.: 36 DATE: 30 July

LOCATION

Base point landmark: Telephone pole at canoe pull Rd S. of McAnich house

Polar coordinate direction: 247 ¹° 160 ¹° paces

Avg. slope: 7° Slope position: hillside: upper slope

Aspect: S-lacina

Comments on topography and environment:

Comments on vegetation structure:

Comments on vegetation structure:
Shrubs are common and conspicuous in the plot, both solitary and in thickets, < 1 m high. One tree in plot, < 5 m high.
herb vegetation mixed, with ~~some~~ grasses dominant.

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

CORRAC	Corn ra	273; 144; 149	18.87
LONMAR	Lonima	70	2.40
JUNVIR	JUVI	260	8.67
VIBDEN	Vib dent X		0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
<i>SVT</i>						<i>160</i>

JUNVIR

37 (9/20)

UPLAND FIELD VEGETATION

FIELD NO.: 904 PLOT NO.: 37 DATE: ~~July 31~~ 1 Aug

LOCATION

Base point landmark:

Polar coordinate direction: 281° 53 paces

Avr. slope: ~~4~~ < 5° Slope position: hill side lower slope

Aspect: SSE

Comments on topography and environment:

Mod Flat terrain

Comments on vegetation structure:

Plot mostly covered by shrubs in large thickets or solitary clumps
 Herb. layer mostly Rubus, Solidago and Andropogon in different proportions. Trees rare, seedlings present in plot, rare, and not found in quadrats

TRANSECTS

Cover of woody vegetation

spp. code

cover along transect (cm)

Corn sa 132 3713 25; 746

Loni mo X

60.53 or 4387

0.0

TREES

DBH measurement, in cm

spp. code

0-2

2-4

4-6

6-8

8-10

>10

ULRU

FRAM

ULMRUB

FRAAME

✓ X

lichens

not the quadrats, $\pm > 0$ but $< 1\%$
 Cornus thicket - Soil is bare, but all beneath
 percentage Cornus - Soil layer canopy ($< 1.5m$)
 canopy up to 2m high 0.00

Tichens										0.00
RUBUS SPP.	<i>Rubus</i> sp. (Creeper)	90	65	10		25	30	4	28	31.50
SOLITJUNC	<i>Solidago juncea</i>	2	10	4		11	12	20		6.88
SOLIGRAM	<i>Solidago graminifolia</i>	6				20	25	22	22	11.88
SOLIRUGO	<i>Solidago rugosa</i>	3			3			23	21	6.25
GALIMOLL	<i>Galium mollugo</i>	2				23	16	10	11	7.75
SOLISPI	<i>Solidago</i> sp. 1	4	8	7	10	34	18	13		10.50
LINAVULG	<i>Linaria vulgaris</i>	+	2							0.31
LACTSPP.	<i>Lactuca</i> sp.	2								0.25
PANISPP.	<i>Panicum</i> sp.	+								0.06
ANDRSCOP	<i>Andropogon scoparius</i>	7	10			6				2.88
UNK-X	<i>Spirulites</i> { <i>crinita</i> sp. }	UNK. SPP.	+				+			0.06
RUMACET	<i>Rumex crispus</i>		15			5	3	3	3	3.63
OXALSTRI	<i>Oxalis stricta</i>		2				+	4		0.81
SOLACARO	<i>Solanum carolinense</i>	+								0.06
SOLIBICO	<i>Sibbaldia virginica</i>	(See Tax. Notes)	2							0.25
SOLIGIGABER	<i>S. gigantea</i> / <i>Protog.</i>		46				4			6.25
ACHI MLL	<i>Achillea millefolium</i>					1				0.13
HYPERPERF	<i>Hypericum perforatum</i>					+				0.06
POTERECT	<i>Potentilla recta</i>					+	+			0.13
UNKROSE	<i>Urtica composita</i> rosette					2			+	0.31
TRIFAGRA	<i>Trifolium agrarium</i>						24			0.50
CARE SPP.	<i>Carex</i> sp.						+			0.06
SOLISPP	<i>Silene</i> sp.	0.8								
TOXIRADI	<i>Toxicodendron radicans</i>	X 0.0								
ERIG-SPP.	<i>Erigon</i> sp.	X 0.0								
CENTMAC	<i>Centaurea maculosa</i>	X 0.0								
SOLICANA	<i>Solidago alt</i> / <i>canad</i>	X 3								
SILE SUCU	<i>Silene cucubalus</i>	X 0.0								
CYNANIGR	<i>Cynanchum nigricans</i>	X 0.0								
Density of woody seedlings: none found present										

UPLAND FIELD VEGETATION

FIELD NO.: 904 PLOT NO.: 38 DATE: 31 July / 1 Aug

LOCATION

Base point landmark:

Polar coordinate direction: 247 ⁰ 179 paces

Avr. slope: 8° Slope position: Roller - under Horse

Aspect: SF - facies

Comments on topography and environment:

Comments on topography and environment:
Small areas of exposed bedrock and bare soil present in the plot

Comments on vegetation structure:

Comments on vegetation structure:
Herbaceous sp. dominate this plot, w/ prominent shrub thickets
present in lesser abundance, trees and seedlings rare.

TRANSECTS

Cover of woody vegetation

spp. code	cover along transect (cm)
-----------	---------------------------

CORRAC

Cor. to 211-19.5

~~8.83~~ 10.50

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
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ACERUB

ACRU

[illegible]

FIELD NO. 904 PLOT NO.: 38 DATE: 31 July

QUADRATS

% cover of herbaceous and creeping vegetation
(x=present in the plot but not the quadrats, += >0 but <1% cover)

species/present	percentage								
rock	+	4							
litter & bare soil	2	8	2					3	1.88
mosses									2.0
lichens	+	4							0.06
SOLISPL. <i>Solidago</i>	25	10	24	5	28	23	38	4	20.25 or 19.63
SOLIGRAM <i>Solidago graminifolia</i>	3					9			1.50
ANDRSCOP <i>Andropogon scoparius</i>	28	40	87	55		35	50	70	48.88
RUBUSPP. <i>Rubus</i> sp. (creeping)	8	1	4	13	2		1	12	5.13
ACHIMILL <i>Achillea millefolium</i>	2								0.25
LINAVULG <i>Linaria vulgaris</i>	1	1	+	+				3	0.75
LACTCAN <i>Lactuca canadensis</i>	1			2		7			1.25
CENTMAC <i>Centauria maculosa</i>	+			3					0.44
"Barbarea-type" sp.	+	1	1	4	3				1.19
SOLIJUNC <i>Solidago juncea</i>	3				8	5			2.00
RUMEACET <i>Rumex acetosella</i>	+	+	4	17	9	6	4	6	5.88
JUNVIRG <i>Junci</i>			+						0.06
CHRYLEUC <i>Chrysanthemum leucanth.</i>		+		3				3	0.81
PANISAP <i>Panicum</i> sp.				5					0.63
HYPERPERF <i>Hypericum perforatum</i>				2	10		+		1.56
SILECUCU <i>Silene cubensis</i>				4					0.50
RUBUSP2. <i>Rubus</i> sp. 2 (creeping)					7	15			4.00 or 2.75
LEPICAMP <i>Lepidium camp.</i>			+	+					0.13
UNKROSE <i>Unknown rose</i>					2				0.25
CYNA <i>Cynodon</i>					+	+			0.13
SOLIRUGO <i>Solidago rugosa</i>						4	3		0.88
ERIGSP2. <i>Erigeron</i> sp.						+			0.06
GALIMOLL <i>Galium mollugo</i>						5	5		1.25
POTESIMP <i>Potentilla simplex</i>							2		0.25
DIANARME <i>Dianthus armeria</i>	X							X	0.0
ACHIMILL <i>Achillea millefolium</i>	X							X	0.0
Density of woody seedlings									0.0
JUNVIR			1						0.25

FIELD NO.: 904 PLOT NO.: 39 DATE: 1/2 Aug

Flat and sloping terrain

Comments on vegetation structure:
Shrub thickets dominant, but trees also present. Shrubs to 2m
in ht, mostly ≤ 1.5 m. Herb vegetation mixed, grass + goldenrod + Rubus
most common, dominant.

ACRU 35; 130; 44; 65 (Area + count?)	20.33 or 18.17
Loni mac 108;	3.60
Cora cap 166; 96; 238; 36	17.87
Plus gl. 27; 66;	3.10
Pyrotho quinque X	2.0
Hem tip X	0.0
Viburn lent X	0.0

JUNVIR

[illegible]

FIELD NO. 904 PLOT NO.: 39 DATE: 1/2 Aug

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <1 % cover)

* under shrub canopy

species/present

percentage

rock

litter & bare soil 40*

mosses

lichens

	rock								0.0
	litter & bare soil	<u>40*</u>	<u>4</u>	<u>6</u>	<u>16</u>				<u>8.25</u>
	mosses								0.0
	lichens								0.0
SOLIGRAM	<i>Solidago graminifolia</i>	<u>18</u>	<u>+</u>			<u>3</u>		<u>4</u>	<u>3.19</u>
RUBUS SP.	<i>Rubus</i> sp. (creeping)	<u>14</u>	<u>16</u>	<u>5</u>	<u>7</u>	<u>27</u>	<u>30</u>	<u>10</u>	<u>23.00</u>
SOLISPL.	<i>Solidago</i> sp. 1	<u>5</u>	<u>18</u>	<u>13</u>	<u>3</u>	<u>2</u>		<u>8</u>	<u>6.19</u>
RUMEACET	<i>Rumex acetosella</i>	<u>13</u>	<u>12</u>	<u>9</u>	<u>8</u>	<u>14</u>	<u>15</u>	<u>5</u>	<u>11.13</u>
LINA VULG.	<i>Linaria vulgaris</i>	<u>+</u>					<u>2</u>		<u>0.31</u>
ANDRSCOP	<i>Andropogon scoparius</i>	<u>8</u>	<u>14</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>50</u>	<u>85</u>	<u>35</u>
(canad.)	<i>Solidago gigantea</i>	<u>40</u>	<u>50</u>			<u>19</u>	<u>3</u>		<u>9.25</u>
or zig.	<i>Solidago canadensis</i>	<u>40</u>	<u>50</u>						<u>0.50</u>
hairy infl.	<i>Solidago canadensis</i>	<u>40</u>	<u>50</u>						<u>0.50</u>
SOLIRUG.	<i>Solidago rugosa</i>					<u>6</u>			<u>0.75</u>
HYPERPER.	<i>Hypericum perforatum</i>					<u>+</u>			<u>0.06</u>
CONVSEPT.	<i>Convolvulus sp.</i>					<u>4</u>	<u>1</u>		<u>0.13</u>
CYNANIGR.	<i>Cyanus nigra</i>					<u>4</u>	<u>1</u>		<u>0.13</u>
CONVSEP.	<i>Convolvulus sp.</i>							<u>2</u>	<u>0.25</u>
LOBE INFL.	<i>Lobelia inflata</i>							<u>1</u>	<u>0.13</u>
CHRYLEUC.	<i>Chrysanthemum leucanthemum</i>								<u>0.0</u>
SOLIBIO.	<i>Solidago bicolor</i> / <i>viridula</i>								<u>0.0</u>
LACTCANA.	<i>Lactuca canadensis</i>								<u>0.0</u>

Density of woody seedlings

none found present

UPLAND FIELD VEGETATION

FIELD NO.: 904 PLOT NO.: 40 DATE: 2 Aug

LOCATION

Base point landmark:

Polar coordinate direction: 235 ° 125 paces

Avg. slope: 8° Slope position: hillside lower slope

Aspect: SE facing

Comments on topography and environment:

Gentle to Moderately sloping, < 100m from creek

Comments on vegetation structure:

*Mostly Upper half of plot is w/in Corn rac thicket up to 3m in ht
Center is almost directly beneath a lg. JUVI
Mostly shrubs throughout the plot, solitary and spaced in the
lower half of plot*

TRANSECTS

Cover of woody vegetation

spp. code cover along transect (cm)

CORRAC	Corn rac	757; 678; 103; 650	73.53
JUNVIR	JUVI	57; 95; 230; 70	14.83
LONMAR	Lon mar	80	2.67
BERVUL	Berb vulg.	X	0.0

TREES

DBH measurement, in cm

spp. code	0-2	2-4	4-6	6-8	8-10	>10
JUNVIR	JUVI		1			19.0
FRAAME	FRAM	1				
ACERUB	ACRU			1		

FIELD NO.

704

PLOT NO.:

40

DATE:

2 Aug

QUADRATS

% cover of herbaceous and creeping vegetation

(x=present in the plot but not the quadrats, += >0 but <2 % cover)

species/present

percentage

rock

0.0

litter & bare soil

3

0.88

mosses

2

0.38

lichens

0.0

SOLIJUNC	<i>Solidago juncea</i>	16	13	10	9	3	2	7	3	7.88
SOLIRUGO	<i>Solidago rugosa</i>	6		13	6					3.13
SOLISOL	<i>Solidago sp.</i>	20	32	36	30	8	4	18	11	18.63
ANTHODOR	<i>Anthoxanthum odoratum</i>	15		6	5	2	5	20	50	14.13
GALIMOLL	<i>Galium mollugo</i>	10	15	9	6	5		3	10	7.25
RUMERACET	<i>Rumex acetosella</i>	18	10	6	14	20			8	9.50
RUBUSFP	<i>Rubus sp.</i>	24	4	14	16	12	21	9	10	11.25
SILECUCU	<i>Silene cucubalus</i>	4	3						2	1.19
VEROOFFI	<i>Veronica officinalis</i>	+	2							0.31
ANDRSCOP	<i>Andropogon scoparius</i>			25	8	70	65			21.00
TRIFAGRAT	<i>Trifolium agratum</i>		+		+	1	2	11	+	1.88
OXALSTRE	<i>Oxalis stricta</i>		+		+		4	+		0.75
CENTMACU	<i>Centauria maculosa</i>		+			42	2		1	0.94
CARESPP.	<i>Carex sp.</i>		+							0.06
CHRYLEUC	<i>Chrysanthemum leucanth.</i>	2				1				0.38
HIERSP.	<i>Hieracium sp.</i>			8		2				1.25
POTECANA	<i>Potentilla canad.</i>				+	+		2	+	0.44
SOLIGRAM	<i>Solidago gracilis</i>						25	3		1.00
SOLIGIGA	<i>Solidago gigantea</i> (5 2/2)						8	+		1.06
CHRYLEUC	<i>Chrysanthemum leucanthemum</i> (see Tax. notes)						+			0.06
AGROTENU	<i>Agrostis sp. tenuis</i>							+		0.06
HYPERP.	<i>Hypericum perforatum</i>								2	0.25
SOLIBILO	<i>Solidago bicolor</i> (see Tax. notes)								+	0.06
DIANAMER	<i>Dianthus armeria</i>	X								0.0

Density of woody seedlings

Dianthus armeria X
none found