

PLOT 637

LOCATION: 19 m from western edge of Grid Square #: 637
DATE SAMPLED: 7/10 84

SITE VARIABLES:

SLOPE: 13° ASPECT: 35° POSITION: midslope
SURFACE WATER: none
LITTER DEPTH: 3.75 cm EXPOSED BEDROCK: yes
SOIL SERIES (mapped):
SOIL pH:

VISUAL EVIDENCE OF: LOGGING: no
GRAZING: yes
STONE WALLS: no
FIRE: no
RECENT WINDTHROW: yes
MOUNDS & PITS: yes

AGES OF DOMINANT TREES: 34.9 cm Quercus rubra : years

CANOPY HEIGHT: 25.8 m % SKY VISIBLE: 14.0

COMMENTS:

HYDROLOGY:

The site is moderately well drained.

SOILS:

The soil is fine textured, moderately stony with abundant earthworm activity.

HISTORY:

There are some windthrown trees (tip ups and breaks)

STAND CONDITION:

The oaks have dieback of upper branches.

ADDITIONAL COMMENTS ON THE SITE:

There is a stone wall ~1 m west of plot. The sapling layer is dense. The landscape is determined by landscape. There are no stumps.

VEGETATION STRUCTURE AND COMPOSITION:

TREES: Absolute density and basal area of stems > 10 cm DBH, by canopy position.

SPECIES	CANOPY		SUB-CANOPY		UNDER-STORY		ALL STEMS	
	DENS	BA	DENS	BA	DENS	BA	DENS	BA
<i>Carya glabra</i>	60	2.455	100	2.431	40	0.483	200	5.369
<i>Quercus alba</i>	60	3.906	20	0.498	0	0.000	80	4.404
<i>Pinus strobus</i>	0	0.000	0	0.000	60	0.885	60	0.885
<i>Quercus rubra</i>	60	4.621	20	0.503	20	0.363	100	5.487
<i>Betula lenta</i>	40	1.535	0	0.000	0	0.000	40	1.535
<i>Ostrya virginiana</i>	0	0.000	0	0.000	20	0.257	20	0.257
<i>Acer saccharum</i>	20	0.733	0	0.000	0	0.000	20	0.733
<i>Fraxinus americana</i>	20	0.726	0	0.000	20	0.194	40	0.920
TOTALS:	DENSITY / HA	260	140	160	560			
	BASAL AREA (M2) / HA	13.9762	3.4316	2.1824	19.5902			

TREES: Relative density and basal area of stems > 10 cm DBH, by canopy position; and overall species importance values (mean of overall %D and %BA).

SPECIES	CANOPY		SUB-CANOPY		UNDER-STORY		ALL STEMS		IMPORTANCE VALUE
	%D	%BA	%D	%BA	%D	%BA	%D	%BA	%
<i>Carya glabra</i>	23	18	71	71	25	22	36	27	31.56
<i>Quercus alba</i>	23	28	14	15	0	0	14	22	18.38
<i>Pinus strobus</i>	0	0	0	0	38	41	11	5	7.62
<i>Quercus rubra</i>	23	33	14	15	13	17	18	28	22.93
<i>Betula lenta</i>	15	11	0	0	0	0	7	8	7.49
<i>Ostrya virginiana</i>	0	0	0	0	13	12	4	1	2.44
<i>Acer saccharum</i>	8	5	0	0	0	0	4	4	3.66
<i>Fraxinus americana</i>	8	5	0	0	13	9	7	5	5.92

TREES: Size class distribution of trees tallied in the 1/20 ha plot.

SPECIES	SIZE CLASS (cm)								
	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	> 50
<i>Carya glabra</i>	2	5	2	1	0	0	0	0	
<i>Quercus alba</i>	0	1	0	2	1	0	0	0	
<i>Pinus strobus</i>	2	1	0	0	0	0	0	0	
<i>Quercus rubra</i>	0	2	1	0	2	0	0	0	
<i>Betula lenta</i>	0	0	2	0	0	0	0	0	
<i>Ostrya virginiana</i>	1	0	0	0	0	0	0	0	
<i>Acer saccharum</i>	0	0	1	0	0	0	0	0	
<i>Fraxinus americana</i>	1	0	1	0	0	0	0	0	
TOTALS	6	9	7	3	3	0	0	0	0

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TREES: Absolute density (per ha) and relative density (as % of density of live trees) of standing dead trees and trees with upper branch dieback

(NOTE: "% OF LIVE" = 999 indicates no live trees of that species in the plot).

SPECIES	STANDING DEAD		BRANCH DIEBACK	
	DENSITY	% OF LIVE	DENSITY	% OF LIVE
Carya glabra	20.0	10.00	0.0	0.00
Quercus alba	20.0	25.00	40.0	50.00
Pinus strobus	40.0	66.67	40.0	66.67
Quercus rubra	0.0	0.00	60.0	60.00
Betula lenta	20.0	50.00	20.0	50.00
Ostrya virginiana	0.0	0.00	0.0	0.00
Acer saccharum	0.0	0.00	0.0	0.00
Fraxinus americana	0.0	0.00	0.0	0.00
TOTALS:	100.0	17.86	160.0	28.57

SAPLINGS: Densities per hectare of all stems > 1 m height and < 10 cm DBH.

SPECIES	SIZE CLASSES (cm)					TOTAL
	0 - 2	2 - 4	4 - 6	6 - 8	8 - 10	
Cornus florida	320	80	40	0	0	440
Betula lenta	40	0	0	0	0	40
Ostrya virginiana	4000	200	0	0	0	4200
Acer saccharum	360	40	40	0	0	440
Fraxinus americana	80	40	0	0	0	120
Castanea dentata	120	0	0	0	0	120
Amelanchier sp.	40	0	0	0	0	40
Quercus alba	40	0	0	0	0	40
TOTALS:	5000	360	80	0	0	5440

SEEDLINGS: Densities (per m²) of stems < 1 m tall.

SPECIES	DENSITY (#/m ²)
Acer saccharum	0.500
Ostrya virginiana	0.500
Quercus alba	0.250
Cornus florida	0.250
Acer rubrum	2.500
TOTAL:	4.000

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in data
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8.08 3 ④
0.7 1 0
177 6 ⑦
8 3 ④
2.2 2 2
1 0
1 0

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Viburnum acerifolium	<u>4.281</u>
Vaccinium angustifolium	<u>0.476</u>
TOTAL:	<u>4.756</u>

HERBACEOUS SPECIES AND THE FOREST FLOOR: Percent cover (note: + means < 1 %).

	% COVER
Litter layer	93.000
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	6.000
Unknown seedlings	+
Tree boles	+
Polygala paucifolia	+
Potentilla simplex	+
Uvularia perfoliata	+
Carex sp.	+
Maianthemum canadense	1.000
Galium sp.	+
Antennaria plantaginifolia	+
Monotropa uniflora	+

*exposed soil
missing
- correction made
in VEG-PDS*