

PLOT 565

LOCATION: 28 m from western edge of Grid Square #: 565
DATE SAMPLED: 6/26/84

SITE VARIABLES:

SLOPE: 1° ASPECT: 350° POSITION: local depression
SURFACE WATER: none
LITTER DEPTH: 3.25 cm EXPOSED BEDROCK: yes
SOIL SERIES (mapped):
SOIL pH:

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

AGES OF DOMINANT TREES: 53.5 cm Quercus rubra : years
3.1800000000E+01 cm Betula lenta : years

CANOPY HEIGHT: 27.5 m % SKY VISIBLE: 8.0

COMMENTS:

HYDROLOGY:

Site is poorly drained in the center of the local depression.

SOILS:

Soils are deep in the local depression, and shallow elsewhere.

HISTORY:

Site was probably pastured.

STAND CONDITION:

Site is good for Fraxinus americana, Carya glabra, and Betula lenta. Canopy trees are young.

ADDITIONAL COMMENTS ON THE SITE:

Plot center was offset 3m west (to 28m) due to old woods road. Some limestone erratics and a limestone ledge are present. Stand is young and most trees are fairly small except for a few very large trees.

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>Quercus velutina</i>	20	2.513	0	0.000	0	0.000	20	2.513
<i>Pinus strobus</i>	0	0.000	20	1.500	40	0.743	60	2.243
<i>Carya glabra</i>	160	5.988	60	0.851	80	0.874	300	7.713
<i>Betula lenta</i>	160	7.425	20	0.492	20	0.257	200	8.175
<i>Quercus rubra</i>	20	4.462	0	0.000	0	0.000	20	4.462
<i>Fraxinus americana</i>	80	2.132	20	0.344	0	0.000	100	2.476
<i>Acer saccharum</i>	20	0.270	0	0.000	0	0.000	20	0.270
<i>Ostrya virginiana</i>	0	0.000	0	0.000	0	0.000	0	0.000
TOTALS:	DENSITY / HA	460	120	140	720			
	BASAL AREA (M2) / HA	22.7907	3.1867	1.8744	27.8518			

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
	%D	%BA	%D	%BA	%D	%BA	%D	%BA	VALUE
<i>Quercus velutina</i>	4	11	0	0	0	0	3	9	5.90
<i>Pinus strobus</i>	0	0	17	47	29	40	8	8	8.19
<i>Carya glabra</i>	35	26	50	27	57	47	42	28	34.68
<i>Betula lenta</i>	35	33	17	15	14	14	28	29	28.56
<i>Quercus rubra</i>	4	20	0	0	0	0	3	16	9.40
<i>Fraxinus americana</i>	17	9	17	11	0	0	14	9	11.39
<i>Acer saccharum</i>	4	1	0	0	0	0	3	1	1.87
<i>Ostrya virginiana</i>	0	0	0	0	0	0	0	0	0.00

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>Quercus velutina</i>	0	0	0	0	0	0	1	0		
<i>Pinus strobus</i>	1	1	0	0	1	0	0	0		
<i>Carya glabra</i>	7	3	3	2	0	0	0	0		
<i>Betula lenta</i>	1	2	6	0	1	0	0	0		
<i>Quercus rubra</i>	0	0	0	0	0	0	0	0	53	
<i>Fraxinus americana</i>	2	2	1	0	0	0	0	0		
<i>Acer saccharum</i>	1	0	0	0	0	0	0	0		
<i>Ostrya virginiana</i>	0	0	0	0	0	0	0	0		
TOTALS	12	8	10	2	2	0	1	0	1	

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
<i>Quercus velutina</i>	0.0	0.00	20.0	100.00
<i>Pinus strobus</i>	0.0	0.00	60.0	100.00
<i>Carya glabra</i>	0.0	0.00	0.0	0.00
<i>Betula lenta</i>	0.0	0.00	0.0	0.00
<i>Quercus rubra</i>	0.0	0.00	0.0	0.00
<i>Fraxinus americana</i>	0.0	0.00	0.0	0.00
<i>Acer saccharum</i>	0.0	0.00	0.0	0.00
<i>Ostrya virginiana</i>	20.0	999.00	0.0	0.00
TOTALS:	20.0	2.78	80.0	11.11

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	
<i>Amelanchier</i> sp.	80	0	0	0	0	80
<i>Acer saccharum</i>	1480	560	80	40	0	2160
<i>Ostrya virginiana</i>	40	40	40	0	80	200
<i>Carya glabra</i>	40	80	200	0	0	320
<i>Picea glauca</i>	0	0	0	0	40	40
<i>Cornus florida</i>	40	40	0	0	0	80
<i>Carpinus caroliniana</i>	0	40	0	0	0	40
<i>Betula lenta</i>	0	0	40	0	0	40
TOTALS:	1680	760	360	40	120	2960

SEEDLINGS: Densities (per m^2) of stems < 1 m tall.

SPECIES	DENSITY ($\#/m^2$)
<i>Quercus velutina</i>	0.500
<i>Quercus alba</i>	0.250
<i>Amelanchier</i> sp.	0.500
<i>Carya glabra</i>	0.250
<i>Acer saccharum</i>	0.250
<i>Betula lenta</i>	0.500
TOTAL:	2.250

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
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TOTAL:	0.000

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

	% COVER
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Litter layer	88.250
Exposed soil	4.371
Exposed rock	1.374
Bryophytes	1.622
Lichens	+
Dead wood	3.999
Unknown seedlings	+
Tree boles	+
Solidago sp.	+
Grass sp.	+
Carex sp.	2.625
Tree root	2.250
Antennaria plantaginifolia	+
Polygonatum pubescens	+
Arailia nudicalis	1.875
Paronychia canadensis	+
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