

PLOT 799

LOCATION: 4 m from western edge of Grid Square #: 799

DATE SAMPLED: 7/20/84

SITE VARIABLES:

SLOPE: 4° ASPECT: 358° POSITION: midslope and local depression

SURFACE WATER: ephemeral stream

LITTER DEPTH: 2.75 cm EXPOSED BEDROCK: no

SOIL SERIES (mapped):

SOIL pH:

VISUAL EVIDENCE OF: LOGGING: yes

GRAZING: yes

STONE WALLS: no

FIRE: no

RECENT WINDTHROW: no

MOUNDS & PITS: yes

AGES OF DOMINANT TREES: 75.1 cm Quercus rubra : years

CANOPY HEIGHT: 34.3 m % SKY VISIBLE: 4.0

COMMENTS:

HYDROLOGY:

Stream bed runs through the plot. There is standing water in some of the bed.

SOILS:

The soils are deep, moderately stony, coarse textured and well drained.

HISTORY:

This plot may have been logged or pastured. There are no stumps on the plot.

STAND CONDITION:

The canopy is fairly dense except where blowdown occurs. There is high Cornus florida mortality. Some very large trees are on the plot.

ADDITIONAL COMMENTS ON THE SITE:

Stream bed which runs through the plot is mostly dry with some standing water. There are slopes on both sides of the stream. A stone wall is to the North of the plot.

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>Tilia americana</i>	0	0.000	60	2.172	20	0.215	80	2.387
<i>Fraxinus americana</i>	40	1.728	20	0.344	0	0.000	60	2.072
<i>Acer saccharum</i>	0	0.000	100	2.055	80	1.042	180	3.097
<i>Betula lenta</i>	20	1.913	0	0.000	0	0.000	20	1.913
<i>Quercus rubra</i>	40	18.862	0	0.000	0	0.000	40	18.862
<i>Pinus strobus</i>	0	0.000	0	0.000	20	1.154	20	1.154
TOTALS:	DENSITY / HA	100	180	120	400			
	BASAL AREA (M2) / HA	22.5036	4.5703	2.4109	29.4849			

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>Tilia americana</i>	0	0	33	48	17	9	20	8	14.05
<i>Fraxinus americana</i>	40	8	11	8	0	0	15	7	11.01
<i>Acer saccharum</i>	0	0	56	45	67	43	45	11	27.75
<i>Betula lenta</i>	20	9	0	0	0	0	5	6	5.74
<i>Quercus rubra</i>	40	84	0	0	0	0	10	64	36.99
<i>Pinus strobus</i>	0	0	0	0	17	48	5	4	4.46

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>Tilia americana</i>	1	2	0	1	0	0	0	0	
<i>Fraxinus americana</i>	1	0	2	0	0	0	0	0	
<i>Acer saccharum</i>	6	2	1	0	0	0	0	0	
<i>Betula lenta</i>	0	0	0	0	1	0	0	0	
<i>Quercus rubra</i>	0	0	0	0	0	0	0	0	75 80
<i>Pinus strobus</i>	0	0	0	1	0	0	0	0	
TOTALS	8	4	3	2	1	0	0	0	2

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>Tilia americana</i>	0.0	0.00	0.0	0.00
<i>Fraxinus americana</i>	0.0	0.00	20.0	33.33
<i>Acer saccharum</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	40.0	100.00
<i>Pinus strobus</i>	0.0	0.00	0.0	0.00
TOTALS:	0.0	0.00	60.0	15.00

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>Acer saccharum</i>	40	80	200	40	0	360
<i>Hammamelis virginiana</i>	40	0	0	0	0	40
<i>Acer pennsylvanicum</i>	200	0	40	40	0	280
<i>Tsuga canadensis</i>	0	40	0	0	0	40
<i>Carya ovata</i>	0	0	0	40	0	40
TOTALS:	280	120	240	120	0	760

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

SPECIES	DENSITY (#/m ²)
<i>Ostrya virginiana</i>	0.250
TOTAL:	0.250

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Viburnum acerifolium	3.924
TOTAL:	3.924

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

	% COVER
Litter layer	83.750
Exposed soil	6.622
Exposed rock	1.874
Bryophytes	2.249
Lichens	+
Dead wood	4.997
Unknown seedlings	+
Tree boles	+
Tree root	+
Arisaema triphyllum	2.625