

PLOT 407

LOCATION: 46 m from western edge of Grid Square #: 407
 DATE SAMPLED: 8/7/84

SITE VARIABLES:

SLOPE: 6° ASPECT: 290° POSITION: midslope
 SURFACE WATER: none
 LITTER DEPTH: 2.00 cm EXPOSED BEDROCK: no
 SOIL SERIES (mapped):
 SOIL pH:

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

AGES OF DOMINANT TREES: 30.5 cm Acer saccharum : years

CANOPY HEIGHT: 24.2 m % SKY VISIBLE: 7.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soils are deep, stony and well drained.

HISTORY:

Site was pastured. Some very large trees in and around plot.

STAND CONDITION:

Canopy is very high.

ADDITIONAL COMMENTS ON THE SITE:

Plot has a very intense cover of Rubus and not many larger saplings.
 Stone wall (property boundary) is very near plot edge.

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
Acer rubrum	60	8.827	100	5.052	80	1.092	240	14.970
Carya glabra	0	0.000	0	0.000	20	0.291	20	0.291
Ulmus americana	20	1.404	0	0.000	0	0.000	20	1.404
Acer saccharum	0	0.000	20	1.461	20	0.176	40	1.638
Betula lenta	0	0.000	40	6.580	0	0.000	40	6.580
TOTALS:	DENSITY / HA		160		120		360	
	BASAL AREA (M2) / HA		10.2311		13.0926		1.5589	
							24.8826	

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	
Acer rubrum	75	86	63	39	67	70	67	60	63.42
Carya glabra	0	0	0	0	17	19	6	1	3.36
Ulmus americana	25	14	0	0	0	0	6	6	5.60
Acer saccharum	0	0	13	11	17	11	11	7	8.85
Betula lenta	0	0	25	50	0	0	11	26	18.78

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
Acer rubrum	4	1	1	3	2	0	0	0	62
Carya glabra	1	0	0	0	0	0	0	0	
Ulmus americana	0	0	0	1	0	0	0	0	
Acer saccharum	1	0	0	0	1	0	0	0	
Betula lenta	0	0	0	0	0	0	1	1	
TOTALS	6	1	1	4	3	0	1	1	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
Acer rubrum	20.0	8.33	60.0	25.00
Carya glabra	0.0	0.00	0.0	0.00
Ulmus americana	0.0	0.00	0.0	0.00
Acer saccharum	0.0	0.00	0.0	0.00
Betula lenta	0.0	0.00	0.0	0.00
TOTALS:	20.0	5.56	60.0	16.67

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	
Carpinus caroliniana	40	0	0	0	0	40
Prunus serotina	360	0	0	0	0	360
Fraxinus americana	160	40	40	0	0	240
Acer rubrum	40	80	120	40	0	280
Carya glabra	40	0	0	0	0	40
Acer saccharum	160	0	40	0	0	200
Quercus prinus	40	0	0	0	0	40
Betula lenta	0	40	0	0	0	40
Carpinus caroliniana	80	0	0	0	0	80
TOTALS:	920	160	200	40	0	1320

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

SPECIES	DENSITY ($\#/m^2$)
Amelanchier sp.	0.750
Prunus serotina	1.500
Acer rubrum	1.500
Quercus rubra	0.500
Hammamelis virginiana	0.250
Rhamnus cathartica	0.500
Acer saccharum	0.250
Carya glabra	0.750
Quercus velutina	0.250
Fraxinus americana	0.250
TOTAL:	6.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Parthenocissus quinquefolia	14.507
Rubus sp.	40.032
Viburnum acerifolium	3.924
TOTAL:	58.462

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

	% COVER
Litter layer	94.875
Exposed soil	+
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	4.875
Unknown seedlings	+
Tree boles	+
Uvularia perfoliata	+
Galium circaezans	1.249
Amphicarpa bracteata	+
Arailia nudicaulis	4.375
Dead wood over	+
Eupatorium rugosum	+
Osmorhiza claytoni	+
Potentilla simplex	+
Circaea quadrisalcata	+
Botrychium dissectum	+
Arisaema triphyllum	+
Allairia officinalis	+