

## PLOT 300

LOCATION: 50 m from western edge of Grid Square #: 300  
DATE SAMPLED: 8/7/84

## SITE VARIABLES:

SLOPE: 31° ASPECT: 102° POSITION: midslope  
SURFACE WATER: none  
LITTER DEPTH: 2.88 cm EXPOSED BEDROCK: no  
SOIL SERIES (mapped):  
SOIL pH:

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

AGES OF DOMINANT TREES: 44.5 cm Quercus prinus : years

CANOPY HEIGHT: 22.5 m % SKY VISIBLE: 9.0

## COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soils are shallow, stony, rocky and well drained.

HISTORY:

There are a lot of windthrown trees in plot.

STAND CONDITION:

Canopy is dense. Most trees are in good condition.

ADDITIONAL COMMENTS ON THE SITE:

Plot center was offset to 39 due to open patch. A dense, low shrub layer is evident. There is exposed bedrock nearby.

## 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
Quercus rubra	0	0.000	0	0.000	0	0.000	0	0.000
Carya ovata	0	0.000	0	0.000	40	0.343	40	0.343
Quercus velutina	80	7.720	20	0.597	0	0.000	100	8.318
Acer rubrum	0	0.000	100	3.297	40	0.499	140	3.796
Pinus strobus	0	0.000	0	0.000	20	1.386	20	1.386
Quercus prinus	40	4.821	0	0.000	0	0.000	40	4.821
Carya tomentosa	0	0.000	0	0.000	20	0.330	20	0.330
Acer saccharum	0	0.000	20	0.470	0	0.000	20	0.470
TOTALS:	DENSITY / HA	120	140	120	380			
	BASAL AREA (M2) / HA	12.5414	4.3642	2.5582	19.4638			

**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	
Quercus rubra	0	0	0	0	0	0	0	0	0.00
Carya ovata	0	0	0	0	33	13	11	2	6.15
Quercus velutina	67	62	14	14	0	0	26	43	34.52
Acer rubrum	0	0	71	76	33	20	37	20	28.17
Pinus strobus	0	0	0	0	17	54	5	7	6.19
Quercus prinus	33	38	0	0	0	0	11	25	17.65
Carya tomentosa	0	0	0	0	17	13	5	2	3.48
Acer saccharum	0	0	14	11	0	0	5	2	3.84

**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
Quercus rubra	0	0	0	0	0	0	0	0	
Carya ovata	2	0	0	0	0	0	0	0	
Quercus velutina	0	1	0	0	2	2	0	0	
Acer rubrum	3	1	2	1	0	0	0	0	
Pinus strobus	0	0	0	1	0	0	0	0	
Quercus prinus	0	0	0	0	1	0	1	0	
Carya tomentosa	1	0	0	0	0	0	0	0	
Acer saccharum	0	1	0	0	0	0	0	0	
TOTALS	6	3	2	2	3	2	1	0	0



**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
Quercus rubra	40.0	999.00	0.0	0.00
Carya ovata	20.0	50.00	0.0	0.00
Quercus velutina	0.0	0.00	80.0	80.00
Acer rubrum	0.0	0.00	40.0	28.57
Pinus strobus	0.0	0.00	20.0	100.00
Quercus prinus	0.0	0.00	0.0	0.00
Carya tomentosa	0.0	0.00	0.0	0.00
Acer saccharum	0.0	0.00	0.0	0.00
TOTALS:	60.0	15.79	140.0	36.84

**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	
Rhamnus cathartica	120	0	40	0	0	160
Amelanchier sp.	120	80	0	0	40	240
Carya ovata	40	40	40	0	80	200
Acer saccharum	120	80	80	0	0	280
Quercus velutina	0	0	40	0	0	40
Quercus prinus	0	0	40	0	0	40
Hammamelis virginiana	120	0	0	0	0	120
Fraxinus americana	40	0	0	0	0	40
Acer rubrum	80	0	0	0	0	80
Cornus florida	240	200	160	80	0	680
TOTALS:	880	400	400	80	120	1880

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

SPECIES	DENSITY ( $\#/m^2$ )
Acer rubrum	1.250
Hammamelis virginiana	0.250
Carya ovata	0.750
Quercus velutina	1.000
Prunus serotina	0.250
TOTAL:	3.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Rosa sp.	3.646
Parthenocissus quinquefolia	19.263
Cornus racemosa	1.308
TOTAL:	24.217

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

	% COVER
Litter layer	88.750
Exposed soil	+
Exposed rock	3.125
Bryophytes	1.999
Lichens	2.247
Dead wood	6.625
Unknown seedlings	+
Tree boles	+
Solidago caesia	2.500
Lysimachia quadrifolia	1.625
Hypericum punctatum	+
Lespedeza hirta	+
Galium circaeans	+
Dead wood over	1.875