

PLOT 1010

LOCATION: 47 m from western edge of Grid Square #:1010

DATE SAMPLED: 8/6/84

SITE VARIABLES:

SLOPE: 5° ASPECT: 23° POSITION: midslope

SURFACE WATER: none

LITTER DEPTH: 3.38 cm EXPOSED BEDROCK: no

SOIL SERIES (mapped):

SOIL pH:

VISUAL EVIDENCE OF: LOGGING: no

GRAZING: yes

STONE WALLS: no

FIRE: no

RECENT WINDTHROW: yes

MOUNDS & PITS: no

AGES OF DOMINANT TREES: 41.0 cm Quercus alba : 98 years

CANOPY HEIGHT: 26.0 m % SKY VISIBLE: 5.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

The soils are deep, well drained, and not stony with a distinct MOR humus.

HISTORY:

There are no stumps from cutting and only one from windthrow.

STAND CONDITION:

The canopy is very dense and in good condition.

ADDITIONAL COMMENTS ON THE SITE:

The understory is sparse.

## 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 prinus	40	3.372	80	2.567	40	1.541	160	7.480
Acer rubrum	0	0.000	0	0.000	20	0.201	20	0.201
Tsuga canadensis	0	0.000	0	0.000	140	1.605	140	1.605
Acer saccharum	20	0.610	20	0.249	100	1.487	140	2.346
Quercus rubra	20	1.659	120	6.433	20	0.622	160	8.714
Carya glabra	20	0.641	0	0.000	80	0.883	100	1.524
Quercus alba	40	4.199	0	0.000	0	0.000	40	4.199
Quercus velutina	20	0.853	0	0.000	0	0.000	20	0.853
TOTALS:	DENSITY / HA	160	220	400	780			
	BASAL AREA (M2) / HA	11.3333	9.2496	6.3396	26.9226			

**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
Quercus prinus	25	30	36	28	10	24	21	28	24.15
Acer rubrum	0	0	0	0	5	3	3	1	1.65
Tsuga canadensis	0	0	0	0	35	25	18	6	11.96
Acer saccharum	13	5	9	3	25	23	18	9	13.33
Quercus rubra	13	15	55	70	5	10	21	32	26.44
Carya glabra	13	6	0	0	20	14	13	6	9.24
Quercus alba	25	37	0	0	0	0	5	16	10.36
Quercus velutina	13	8	0	0	0	0	3	3	2.87

**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 prinus	0	3	3	1	0	0	1	0	
Acer rubrum	1	0	0	0	0	0	0	0	
Tsuga canadensis	7	0	0	0	0	0	0	0	
Acer saccharum	5	2	0	0	0	0	0	0	
Quercus rubra	0	1	3	2	2	0	0	0	
Carya glabra	4	0	1	0	0	0	0	0	
Quercus alba	0	0	0	0	1	0	1	0	
Quercus velutina	0	0	1	0	0	0	0	0	
TOTALS	17	6	8	3	3	0	2	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 prinus	0.0	0.00	0.0	0.00
Acer rubrum	0.0	0.00	0.0	0.00
Tsuga canadensis	0.0	0.00	20.0	14.29
Acer saccharum	0.0	0.00	20.0	14.29
Quercus rubra	0.0	0.00	20.0	12.50
Carya glabra	0.0	0.00	0.0	0.00
Quercus alba	0.0	0.00	0.0	0.00
Quercus velutina	0.0	0.00	20.0	100.00
TOTALS:	0.0	0.00	80.0	10.26

**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	
Tsuga canadensis	920	640	280	160	160	2160
Acer rubrum	40	80	40	0	0	160
Amelanchier sp.	600	40	0	40	0	680
Ostrya virginiana	600	80	40	0	0	720
Acer saccharum	80	40	0	0	0	120
Fagus grandifolia	40	0	0	0	0	40
TOTALS:	2280	880	360	200	160	3880

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

SPECIES	DENSITY ( $\#/m^2$ )
Carya glabra	0.250
Acer rubrum	2.500
Ostrya virginiana	0.500
Amelanchier sp.	2.250
Prunus serotina	0.250
Quercus prinus	0.250
TOTAL:	6.000

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
<i>Viburnum acerifolium</i>	4.558
<i>Vaccinium angustifolium</i>	0.079
TOTAL:	4.637

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

	% COVER
Litter layer	94.250
Exposed soil	+
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	4.875
Unknown seedlings	+
Tree boles	+
<i>Maianthemum canadense</i>	1.624
<i>Aster divaricatus</i>	+
Deadwood over	2.500
<i>Carex</i> sp.	+