

PLOT 1008

LOCATION: 21 m from western edge of Grid Square #:1008

DATE SAMPLED: 8/6/84

SITE VARIABLES:

SLOPE: 17° ASPECT: 106° POSITION: crest of slope

SURFACE WATER: none

LITTER DEPTH: 3.00 cm EXPOSED BEDROCK: yes

SOIL SERIES (mapped):

SOIL pH:

VISUAL EVIDENCE OF: LOGGING: yes

GRAZING: yes

STONE WALLS: no

FIRE: no

RECENT WINDTHROW: yes

MOUNDS & PITS: yes

AGES OF DOMINANT TREES: 35.0 cm Quercus rubra : years

CANOPY HEIGHT: 20.7 m % SKY VISIBLE: 4.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

The soils are rocky, shallow and well drained.

HISTORY:

There are some windthrown logs in the plot. Some high stumps from cutting were left on the plot. There are roads on both sides.

STAND CONDITION:

This is an even-aged stand made up mostly of Quercus prinus.

ADDITIONAL COMMENTS ON THE SITE:

The plot was offset 22m south due to the road. The shrub layer is dense.

## 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	80	3.187	280	10.419	60	1.222	420	14.829
Betula lenta	0	0.000	20	0.303	0	0.000	20	0.303
Quercus rubra	20	1.924	60	3.170	0	0.000	80	5.094
Acer saccharum	0	0.000	60	1.169	40	0.577	100	1.746
Fraxinus americana	0	0.000	0	0.000	20	0.187	20	0.187
TOTALS:	DENSITY / HA	100	420	120	640			
	BASAL AREA (M2) / HA	5.1116	15.0614	1.9856	22.1586			

**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	80	62	67	69	50	62	66	67	66.27
Betula lenta	0	0	5	2	0	0	3	1	2.25
Quercus rubra	20	38	14	21	0	0	13	23	17.74
Acer saccharum	0	0	14	8	33	29	16	8	11.75
Fraxinus americana	0	0	0	0	17	9	3	1	1.98

**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	2	4	13	2	0	0	0	0	
Betula lenta	1	0	0	0	0	0	0	0	
Quercus rubra	0	0	0	3	0	1	0	0	
Acer saccharum	2	3	0	0	0	0	0	0	
Fraxinus americana	1	0	0	0	0	0	0	0	
TOTALS	6	7	13	5	0	1	0	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
<i>Quercus prinus</i>	60.0	14.29	180.0	42.86
<i>Betula lenta</i>	0.0	0.00	20.0	100.00
<i>Quercus rubra</i>	20.0	25.00	20.0	25.00
<i>Acer saccharum</i>	0.0	0.00	20.0	20.00
<i>Fraxinus americana</i>	0.0	0.00	20.0	100.00
TOTALS:	80.0	12.50	260.0	40.63

**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.	520	0	0	40	0	560
<i>Quercus rubra</i>	240	80	40	0	0	360
<i>Acer saccharum</i>	240	0	0	0	0	240
<i>Acer rubrum</i>	120	120	0	40	0	280
<i>Quercus prinus</i>	440	40	40	0	0	520
<i>Ostrya virginiana</i>	80	0	0	0	0	80
<i>Betula lenta</i>	120	80	0	0	0	200
<i>Fraxinus americana</i>	80	40	0	0	0	120
<i>Carya glabra</i>	0	40	0	0	40	80
<i>Hammamelis virginiana</i>	80	0	0	0	0	80
TOTALS:	1920	400	80	80	40	2520

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

SPECIES	DENSITY ( $\text{\#}/\text{m}^2$ )
<i>Amelanchier</i> sp.	2.250
<i>Acer rubrum</i>	1.000
<i>Acer saccharum</i>	0.250
<i>Quercus prinus</i>	0.750
<i>Quercus rubra</i>	0.250
TOTAL:	4.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
<i>Viburnum acerifolium</i>	5.589
<i>Vaccinium angustifolium</i>	8.601
TOTAL:	14.189

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

	% COVER
Litter layer	89.750
Exposed soil	+
Exposed rock	+
Bryophytes	5.871
Lichens	1.122
Dead wood	3.124
Unknown seedlings	+
Tree boles	+
<i>Maianthemum canadense</i>	+
<i>Monotropa uniflora</i>	+
<i>Carex</i> sp.	3.374
<i>Aster divaricatus</i>	+
<i>Smilacina racemosa</i>	+
<i>Hieracium venosum</i>	+
<i>Gaultheria procumbens</i>	+
Fungus	+
<i>Comandra umbellata</i>	+
<i>Lespedeza hirta</i>	+
<i>Polygonatum biflorum</i>	+
<i>Melampyrum lineare</i>	+
<i>Solidago caesia</i>	+