

PLOT 1018

LOCATION: 84 m from western edge of Grid Square #:1018

DATE SAMPLED: 8/6/84

SITE VARIABLES:

SLOPE: 4° ASPECT: 124° POSITION: midslope and local depression

SURFACE WATER: none

LITTER DEPTH: 3.25 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: 41.0 cm Quercus alba : years

CANOPY HEIGHT: 20.9 m % SKY VISIBLE: 20.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

The soils are shallow, stony and rocky with a light, ashy brown color.  
They are well drained.

HISTORY:

There is a lot of windthrow both old and recent.

STAND CONDITION:

The canopy is open with much windthrow and dieback

ADDITIONAL COMMENTS ON THE SITE:

An old road runs through 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
Quercus alba	20	2.641	0	0.000	0	0.000	20	2.641
Quercus prinus	20	0.982	140	3.421	20	0.339	180	4.743
Quercus velutina	40	2.303	0	0.000	0	0.000	40	2.303
Carya glabra	0	0.000	20	0.515	0	0.000	20	0.515
Quercus rubra	40	2.511	40	1.302	20	0.157	100	3.970
Acer rubrum	0	0.000	20	0.817	60	0.581	80	1.397
Amelanchier sp.	0	0.000	0	0.000	20	0.242	20	0.242
TOTALS:	DENSITY / HA	120		220		120		460
	BASAL AREA (M2) / HA		8.4366		6.0549		1.3189	15.8104

**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 alba	17	31	0	0	0	0	4	17	10.52
Quercus prinus	17	12	64	57	17	26	39	30	34.56
Quercus velutina	33	27	0	0	0	0	9	15	11.63
Carya glabra	0	0	9	8	0	0	4	3	3.80
Quercus rubra	33	30	18	22	17	12	22	25	23.43
Acer rubrum	0	0	9	13	50	44	17	9	13.11
Amelanchier sp.	0	0	0	0	17	18	4	2	2.94

**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
	15	20	25	30	35	40	45	50	
Quercus alba	0	0	0	0	0	0	1	0	
Quercus prinus	2	5	1	1	0	0	0	0	
Quercus velutina	0	0	1	0	1	0	0	0	
Carya glabra	0	1	0	0	0	0	0	0	
Quercus rubra	1	2	1	0	0	1	0	0	
Acer rubrum	3	0	1	0	0	0	0	0	
Amelanchier sp.	1	0	0	0	0	0	0	0	
TOTALS	7	8	4	1	1	1	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 alba	80.0	400.00	20.0	100.00
Quercus prinus	0.0	0.00	80.0	44.44
Quercus velutina	0.0	0.00	40.0	100.00
Carya glabra	40.0	200.00	0.0	0.00
Quercus rubra	0.0	0.00	40.0	40.00
Acer rubrum	0.0	0.00	60.0	75.00
Amelanchier sp.	0.0	0.00	0.0	0.00
TOTALS:	120.0	26.09	240.0	52.17

**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	
Amelanchier sp.	440	160	0	0	0	600
Acer rubrum	240	240	0	80	0	560
Acer saccharum	40	80	0	0	0	120
Betula lenta	40	0	0	0	0	40
Fagus grandifolia	0	40	0	0	0	40
Quercus velutina	40	0	0	0	0	40
Hammamelis virginiana	200	0	0	0	0	200
Ostrya virginiana	40	0	0	0	0	40
Castanea dentata	80	0	0	0	0	80
Fraxinus americana	40	0	0	0	0	40
TOTALS:	1160	520	0	80	0	1760

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

SPECIES	DENSITY ( $\#/m^2$ )
Amelanchier sp.	2.750
Acer rubrum	1.500
Prunus serotina	0.500
Hammamelis virginiana	0.500
TOTAL:	5.250



SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Vaccinium vacillans	0.832
Galussacia baccata	2.854
Viburnum acerifolium	17.004
TOTAL:	20.690

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

	% COVER
Litter layer	95.250
Exposed soil	+
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	3.750
Unknown seedlings	+
Tree boles	+
Deadwood over	1.375
Mitchella repens	+
Monotropa uniflora	+
Carex sp.	+
Solidago caesis	+
Grass sp.	+