

No date

PLOT 1014

LOCATION: 22 m from western edge of Grid Square #:1014
DATE SAMPLED:

SITE VARIABLES:

SLOPE: 10° ASPECT: 311° POSITION: midslope
SURFACE WATER: none
LITTER DEPTH: 3.88 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: 49.3 cm Quercus prinus : years

CANOPY HEIGHT: 26.0 m % SKY VISIBLE: 0.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

The soils are deep, not stony, and moist but well drained. They are moderately fine textured with a well developed MOR humus.

HISTORY:

There is a very old cut stump in the plot.

STAND CONDITION:

The canopy is very dense and in good condition.

ADDITIONAL COMMENTS ON THE SITE:

The plot center was offset by 18m East(to 40) to get plot within the property boundaries. The shrub and sapling layers are dense with a lot of Fagus grandifolia sprouts. There are calcium-bearing limestone erratics in the plot with and without anomadon. There are lots of old Castanea dentata logs in 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
<i>Fagus grandifolia</i>	40	4.627	20	0.740	20	0.824	80	6.190
<i>Quercus prinus</i>	40	5.612	60	4.917	20	0.487	120	11.015
<i>Acer saccharum</i>	0	0.000	40	3.428	100	1.498	140	4.926
<i>Quercus rubra</i>	0	0.000	20	1.103	0	0.000	20	1.103
<i>Acer rubrum</i>	0	0.000	0	0.000	80	1.310	80	1.310
<i>Quercus alba</i>	20	2.221	0	0.000	0	0.000	20	2.221
TOTALS:	DENSITY / HA	100		140		220		460
	BASAL AREA (M2) / HA		12.4599		10.1876		4.1188	26.7663

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
<i>Fagus grandifolia</i>	40	37	14	7	9	20	17	23	20.26
<i>Quercus prinus</i>	40	45	43	48	9	12	26	41	33.62
<i>Acer saccharum</i>	0	0	29	34	45	36	30	18	24.42
<i>Quercus rubra</i>	0	0	14	11	0	0	4	4	4.23
<i>Acer rubrum</i>	0	0	0	0	36	32	17	5	11.14
<i>Quercus alba</i>	20	18	0	0	0	0	4	8	6.32

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
<i>Fagus grandifolia</i>	0	0	2	0	1	0	1	0	
<i>Quercus prinus</i>	0	1	0	1	3	0	0	1	
<i>Acer saccharum</i>	3	2	0	0	2	0	0	0	
<i>Quercus rubra</i>	0	0	0	1	0	0	0	0	
<i>Acer rubrum</i>	2	2	0	0	0	0	0	1	
<i>Quercus alba</i>	0	0	0	0	0	1	0	0	
TOTALS	5	5	2	2	6	1	1	1	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>Fagus grandifolia</i>	0.0	0.00	0.0	0.00
<i>Quercus prinus</i>	40.0	33.33	20.0	16.67
<i>Acer saccharum</i>	0.0	0.00	0.0	0.00
<i>Quercus rubra</i>	0.0	0.00	0.0	0.00
<i>Acer rubrum</i>	0.0	0.00	0.0	0.00
<i>Quercus alba</i>	0.0	0.00	0.0	0.00
TOTALS:	40.0	8.70	20.0	4.35

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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>Hammamelis virginiana</i>	560	40	0	0	0	600
<i>Acer rubrum</i>	240	0	40	0	0	280
<i>Acer saccharum</i>	80	0	0	0	0	80
<i>Castanea dentata</i>	40	40	40	0	0	120
<i>Fagus grandifolia</i>	1120	360	120	0	0	1600
<i>Betula lenta</i>	400	0	0	0	0	400
<i>Fraxinus americana</i>	40	0	0	0	0	40
TOTALS:	2480	440	200	0	0	3120

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

SPECIES	DENSITY ($\#/m^2$)
<i>Hammamelis virginiana</i>	0.750
<i>Acer saccharum</i>	0.500
<i>Castanea dentata</i>	0.250
<i>Acer rubrum</i>	2.250
<i>Prunus serotina</i>	0.500
<i>Betula lenta</i>	0.250
<i>Ostrya virginiana</i>	0.250
TOTAL:	4.750

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
<i>Corylus cornuta</i>	0.674
<i>Viburnum acerifolium</i>	14.982
<i>Vaccinium angustifolium</i>	0.317
TOTAL:	15.973

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

	% COVER
Litter layer	89.625
Exposed soil	3.247
Exposed rock	+
Bryophytes	1.372
Lichens	+
Dead wood	6.625
Unknown seedlings	+
Tree boles	+
<i>Polygala paucifolia</i>	+
<i>Hepatica americana</i>	+
<i>Carex</i> sp.	1.497
<i>Arailia nudicaulis</i>	1.500
<i>Arisaema triphyllum</i>	+
<i>Uvularia perfoliata</i>	+
Deadwood over	6.875
Tree root	+